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OM protein - protein search, using sw model

Run on: May 17, 2004, 17:49:00 ; Search time 18.3922 Seconds
(without alignments)
188.066 Million cell updates/sec

Title: US-09-872-852-2
Perfect score: 367
Sequence: 1 MRIHYLLFALLFLVLPVPG.....KEEQIGKSTRGRKCCRRKK 67

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA: *
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep: *
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep: *
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep: *
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep: *
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep: *
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	367	100.0	67	4	US-09-636-399A-10 Sequence 10, Appl
2	357	97.3	65	4	US-09-636-399A-2 Sequence 2, Appl
3	241	65.7	49	4	US-09-636-399A-35 Sequence 35, Appl
4	236	64.3	48	4	US-09-636-399A-36 Sequence 36, Appl
5	234	63.8	48	4	US-09-636-399A-37 Sequence 37, Appl
6	229	62.4	47	4	US-09-636-399A-38 Sequence 38, Appl
7	228	62.1	47	4	US-09-636-399A-39 Sequence 39, Appl
8	223	60.8	46	4	US-09-636-399A-40 Sequence 40, Appl
9	220	59.9	46	4	US-09-636-399A-41 Sequence 41, Appl
10	215	58.6	45	4	US-09-636-399A-42 Sequence 42, Appl
11	214	58.3	45	4	US-09-636-399A-43 Sequence 43, Appl
12	209	56.9	44	4	US-09-636-399A-44 Sequence 44, Appl
13	208	56.7	44	4	US-09-636-399A-20 Sequence 20, Appl
14	208	56.7	44	4	US-09-636-399A-45 Sequence 45, Appl
15	204	55.6	43	4	US-09-636-399A-23 Sequence 23, Appl
16	204	55.6	43	4	US-09-636-399A-47 Sequence 47, Appl
17	203	55.3	43	4	US-09-636-399A-21 Sequence 21, Appl
18	203	55.3	43	4	US-09-636-399A-46 Sequence 46, Appl
19	200	54.5	42	4	US-09-636-399A-26 Sequence 26, Appl
20	200	54.5	42	4	US-09-636-399A-49 Sequence 49, Appl
21	199	54.2	42	4	US-09-636-399A-24 Sequence 24, Appl
22	199	54.2	42	4	US-09-636-399A-48 Sequence 48, Appl
23	198	54.0	42	4	US-09-636-399A-22 Sequence 22, Appl
24	195	53.1	41	4	US-09-636-399A-27 Sequence 27, Appl
25	195	53.1	41	4	US-09-636-399A-50 Sequence 50, Appl
26	194	52.9	41	4	US-09-636-399A-25 Sequence 25, Appl
27	194	52.9	41	4	US-09-636-399A-29 Sequence 29, Appl

28	194	52.9	41	4	US-09-636-399A-51	Sequence 51, Appl
29	190	51.8	40	4	US-09-636-399A-28	Sequence 28, Appl
30	189	51.5	40	4	US-09-636-399A-30	Sequence 30, Appl
31	189	51.5	40	4	US-09-636-399A-32	Sequence 32, Appl
32	189	51.5	40	4	US-09-636-399A-52	Sequence 52, Appl
33	189	51.5	40	4	US-09-636-399A-53	Sequence 53, Appl
34	185	50.4	39	4	US-09-636-399A-19	Sequence 19, Appl
35	185	50.4	39	4	US-09-636-399A-55	Sequence 55, Appl
36	184	50.1	39	4	US-09-636-399A-31	Sequence 31, Appl
37	184	50.1	39	4	US-09-636-399A-33	Sequence 33, Appl
38	184	50.1	39	4	US-09-636-399A-54	Sequence 54, Appl
39	182	49.6	37	4	US-09-636-399A-59	Sequence 59, Appl
40	182	49.6	38	4	US-09-636-399A-57	Sequence 57, Appl
41	180	49.0	38	4	US-09-636-399A-18	Sequence 18, Appl
42	180	49.0	38	4	US-09-636-399A-56	Sequence 56, Appl
43	179	48.8	38	4	US-09-636-399A-34	Sequence 34, Appl
44	177	48.2	36	4	US-09-636-399A-60	Sequence 60, Appl
45	177	48.2	37	4	US-09-636-399A-58	Sequence 58, Appl

ALIGNMENTS

RESULT 1
US-09-636-399A-10
Sequence 10, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baindur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636, 399A
CURRANT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058, 335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064, 294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150, 786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636, 399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 67
TYPE: PRT
ORGANISM: Homo sapiens
US-09-636-399A-10

Query Match 100.0%; Score 367; DB 4; Length 67;
Best Local Similarity 100.0%; Pred. No. 2.4e-38;
Matches 67; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRIHYLLFALLFLVLPVPGHGIIINTLQKYCYCRVGRCAVLSCLPKEEQIGKSTRGR 60
DB 1 MRIHYLLFALLFLVLPVPGHGIIINTLQKYCYCRVGRCAVLSCLPKEEQIGKSTRGR 60
QY 61 KCCRRKK 67
DB 61 KCCRRKK 67

RESULT 2
US-09-636-399A-2
Sequence 2, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.

Handwritten note:
This is a duplicate of the
US-09-636-399A-10
(considered)
US-09-636-399A-10

```
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-636-399A-2
```

```
Query Match      97.3%; Score 357; DB 4; Length 65;
Best Local Similarity 100.0%; Pred. No. 4e-37;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 MHIYLLFALLFLFLVPGVGHGIIINTLQKYYCRVGRCAVLSCLPKKEQIGKSTRGR 60
          |||||
Db      1 MHIYLLFALLFLFLVPGVGHGIIINTLQKYYCRVGRCAVLSCLPKKEQIGKSTRGR 60
```

```
OY      61 KCCRR 65
          |||||
Db      61 KCCRR 65
```

```
RESULT 3
US-09-636-399A-35
; Sequence 35, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 49
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (45)...(45)
; OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
; US-09-636-399A-35
```

```
Query Match      65.7%; Score 241; DB 4; Length 49;
Best Local Similarity 91.8%; Pred. No. 6.7e-23;
```

```
Matches 45; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
OY      19 PGHGIINTLQKYYCRVGRCAVLSCLPKKEQIGKSTRGRKCCRRK 67
          |||||
Db      1 PGHGIINTLQLYYCRVGRCAVLSCLPKKEQIGKSTRGRKCCRRK 49
```

```
RESULT 4
US-09-636-399A-36
; Sequence 36, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 48
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (45)...(45)
; OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
; US-09-636-399A-36
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```
Query Match      64.3%; Score 236; DB 4; Length 48;
Best Local Similarity 91.7%; Pred. No. 2.7e-22;
Matches 44; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
OY      19 PGHGIINTLQKYYCRVGRCAVLSCLPKKEQIGKSTRGRKCCRRK 66
          |||||
Db      1 PGHGIINTLQLYYCRVGRCAVLSCLPKKEQIGKSTRGRKCCRRK 48
```

```
RESULT 5
US-09-636-399A-37
; Sequence 37, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
```

```
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 48
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (44)...(44)
; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
US-09-636-399A-37
```

```
Query Match          63.8%; Score 234; DB 4; Length 48;
Best Local Similarity 91.7%; Pred. No. 4.9e-22;
Matches 44; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      20 GHGGIINTLQKYCYCRVGRGCAVLSCLPKKEQIGKCGSTRGRKCCRRK 67
      1 GHGGIINTLQLYCYCRVGRGCAVLSCLPKKECIGKMGSTRGRKCCRRK 48
Db
```

RESULT 6

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US-09-636-399A-38
; Sequence 38, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
```

```
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 47
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (44)...(44)
; OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met.
US-09-636-399A-38
```

```
Query Match          62.4%; Score 229; DB 4; Length 47;
Best Local Similarity 91.5%; Pred. No. 2e-21;
Matches 43; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      20 GHGGIINTLQKYCYCRVGRGCAVLSCLPKKEQIGKCGSTRGRKCCRRK 66
      1 GHGGIINTLQLYCYCRVGRGCAVLSCLPKKECIGKMGSTRGRKCCRRK 47
Db
```

RESULT 7

```
US-09-636-399A-39
; Sequence 39, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
```

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; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
```

```
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 47
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (43)...(43)
; OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
US-09-636-399A-39
```

```
Query Match          62.1%; Score 228; DB 4; Length 47;
Best Local Similarity 91.5%; Pred. No. 2.6e-21;
Matches 43; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      21 HGGIINTLQKYCYCRVGRGCAVLSCLPKKEQIGKCGSTRGRKCCRRK 67
      1 HGGIINTLQLYCYCRVGRGCAVLSCLPKKECIGKMGSTRGRKCCRRK 47
Db
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RESULT 8

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US-09-636-399A-40
; Sequence 40, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
```

```
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 46
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (43)...(43)
; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
US-09-636-399A-40
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Query Match          60.8%; Score 223; DB 4; Length 46;
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Best Local Similarity 91.3%; Pred. No. 1.1e-20;
Matches 42; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 21 HGGIINTLQKYCRVGRGCAVLSCLPKEQIGKSTRGRKCCRRK 66
DB 1 HGGIINTLQLYCVRVGRGCAVLSCLPKECTIGKSTRGRKCCRRK 46

RESULT 9

US-09-636-399A-41
Sequence 41, Application US/09636399A
Patent No. 6576755

GENERAL INFORMATION:

APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.

TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2

CURRENT APPLICATION NUMBER: US/09/636,399A

CURRENT FILING DATE: 2000-08-10

PRIOR APPLICATION NUMBER: 60/058,335

PRIOR FILING DATE: 1997-10-09

PRIOR APPLICATION NUMBER: 60/064,294

PRIOR FILING DATE: 1997-11-05

PRIOR APPLICATION NUMBER: 09/150,786

PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: 09/636,399

PRIOR FILING DATE: 2000-08-10

NUMBER OF SEQ ID NOS: 72

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 41

LENGTH: 46

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Defensin polypeptide

NAME/KEY: VARIANT

LOCATION: (42)...(42)

OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met

US-09-636-399A-41

Query Match 59.9%; Score 220; DB 4; Length 46;
Best Local Similarity 91.3%; Pred. No. 2.5e-20;
Matches 42; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 22 GGIINTLQKYCRVGRGCAVLSCLPKEQIGKSTRGRKCCRRK 67
DB 1 GGIINTLQLYCVRVGRGCAVLSCLPKECTIGKSTRGRKCCRRK 46

RESULT 10

US-09-636-399A-42
Sequence 42, Application US/09636399A
Patent No. 6576755

GENERAL INFORMATION:

APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.

TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2

CURRENT APPLICATION NUMBER: US/09/636,399A

CURRENT FILING DATE: 2000-08-10

PRIOR APPLICATION NUMBER: 60/058,335

PRIOR FILING DATE: 1997-10-09

PRIOR APPLICATION NUMBER: 60/064,294

PRIOR FILING DATE: 1997-11-05

PRIOR APPLICATION NUMBER: 09/150,786

PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: 09/636,399

PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 42

LENGTH: 45

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Defensin polypeptide

NAME/KEY: VARIANT

LOCATION: (42)...(42)

OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met

US-09-636-399A-42

Query Match 58.6%; Score 215; DB 4; Length 45;
Best Local Similarity 91.1%; Pred. No. 1e-19;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 22 GGIINTLQKYCRVGRGCAVLSCLPKEQIGKSTRGRKCCRRK 66
DB 1 GGIINTLQLYCVRVGRGCAVLSCLPKECTIGKSTRGRKCCRRK 45

RESULT 11

US-09-636-399A-43

Sequence 43, Application US/09636399A
Patent No. 6576755

GENERAL INFORMATION:

APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.

TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2

CURRENT APPLICATION NUMBER: US/09/636,399A

CURRENT FILING DATE: 2000-08-10

PRIOR APPLICATION NUMBER: 60/058,335

PRIOR FILING DATE: 1997-10-09

PRIOR APPLICATION NUMBER: 60/064,294

PRIOR FILING DATE: 1997-11-05

PRIOR APPLICATION NUMBER: 09/150,786

PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: 09/636,399

PRIOR FILING DATE: 2000-08-10

NUMBER OF SEQ ID NOS: 72

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 43

LENGTH: 45

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Defensin polypeptide

NAME/KEY: VARIANT

LOCATION: (41)...(41)

OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met

US-09-636-399A-43

Query Match 58.3%; Score 214; DB 4; Length 45;
Best Local Similarity 91.1%; Pred. No. 1.4e-19;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 23 GGIINTLQKYCRVGRGCAVLSCLPKEQIGKSTRGRKCCRRK 67
DB 1 GGIINTLQLYCVRVGRGCAVLSCLPKECTIGKSTRGRKCCRRK 45

RESULT 12

US-09-636-399A-44

Sequence 44, Application US/09636399A
Patent No. 6576755

GENERAL INFORMATION:

APPLICANT: Adler, David A.

```
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 44
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (41)...(41)
; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
US-09-636-399A-44

Query Match      56.9%; Score 209; DB 4; Length 44;
Best Local Similarity 90.9%; Pred. No. 5.5e-19;
Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      23 GIINTLQKYCRVRGGRCAYLSCLPKKEQIGKCGSTRGRKCCRRK 66
Db      1 GIINTLQLYCVRVGGRCAYLSCLPKKECIGKMGSTRGRKCCRRK 44

RESULT 13
US-09-636-399A-20
; Sequence 20, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 20
; LENGTH: 44
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin Polypeptide
US-09-636-399A-20

Query Match      56.7%; Score 208; DB 4; Length 44;
Best Local Similarity 90.9%; Pred. No. 7.3e-19;
Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
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Db      1 IINTLQKYCRVRYYRCAYLSCLPKKEQIYKCGSTRYRKCRRK 44

RESULT 14
US-09-636-399A-45
; Sequence 45, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 45
; LENGTH: 44
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (40)...(40)
; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, Met.
US-09-636-399A-45

Query Match      56.7%; Score 208; DB 4; Length 44;
Best Local Similarity 90.9%; Pred. No. 7.3e-19;
Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      24 IINTLQKYCRVRGGRCAYLSCLPKKEQIGKCGSTRGRKCCRRK 67
Db      1 IINTLQLYCVRVGGRCAYLSCLPKKECIGKMGSTRGRKCCRRK 44

RESULT 15
US-09-636-399A-23
; Sequence 23, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
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SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 23
LENGTH: 43
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
US-09-636-399A-23

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Best Local Similarity 90.7%; Pred. No. 2.2e-18;
Matches 39; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 25 INTLOKYYCRVGRGRCVAVLSCLPKKEQIGKSTRGRKCCRRKK 67
1 INTLOKYYCRVRYRCAVLSCLPKKEQIYKSTRYRRCRRKK 43

Search completed: May 17, 2004, 18:00:26
Job time : 18.3922 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 17, 2004, 17:58:35 ; Search time 47.2941 Seconds
(without alignments)
394.204 Million cell updates/sec

Title: US-09-872-852-2
Perfect score: 367
Sequence: 1 MRIHYLLFALLFLVVPVPG.....KEBQIGKSTRGRKCRKK 67

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:
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18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	367	100.0	67	9	US-09-917-340-52 Sequence 52, Appl
2	367	100.0	67	9	US-09-917-340-72 Sequence 72, Appl
3	367	100.0	67	9	US-09-872-852-2 Sequence 2, Appl
4	367	100.0	67	14	US-10-091-166B-10 Sequence 10, Appl
5	367	100.0	67	14	US-10-272-121-10 Sequence 10, Appl
6	367	100.0	67	14	US-10-409-366-10 Sequence 10, Appl
7	367	100.0	67	14	US-10-409-532-10 Sequence 10, Appl
8	357	97.3	65	14	US-10-091-166B-2 Sequence 2, Appl
9	357	97.3	65	14	US-10-272-121-2 Sequence 2, Appl
10	357	97.3	65	14	US-10-409-366-2 Sequence 2, Appl
11	357	97.3	65	14	US-10-409-532-2 Sequence 2, Appl
12	250	68.1	45	9	US-09-872-852-4 Sequence 4, Appl
13	241	65.7	49	14	US-10-091-166B-35 Sequence 35, Appl
14	241	65.7	49	14	US-10-272-121-35 Sequence 35, Appl
15	241	65.7	49	14	US-10-409-366-35 Sequence 35, Appl

16	241	65.7	49	14	US-10-409-532-35	Sequence 35, Appl
17	236	64.3	48	14	US-10-091-166B-36	Sequence 36, Appl
18	236	64.3	48	14	US-10-272-121-36	Sequence 36, Appl
19	236	64.3	48	14	US-10-409-366-36	Sequence 36, Appl
20	236	64.3	48	14	US-10-409-532-36	Sequence 36, Appl
21	234	63.8	48	14	US-10-091-166B-37	Sequence 37, Appl
22	234	63.8	48	14	US-10-272-121-37	Sequence 37, Appl
23	234	63.8	48	14	US-10-409-366-37	Sequence 37, Appl
24	234	63.8	48	14	US-10-409-532-37	Sequence 37, Appl
25	230	62.7	41	9	US-09-872-852-3	Sequence 3, Appl
26	229	62.4	47	14	US-10-091-166B-38	Sequence 38, Appl
27	229	62.4	47	14	US-10-272-121-38	Sequence 38, Appl
28	229	62.4	47	14	US-10-409-366-38	Sequence 38, Appl
29	229	62.4	47	14	US-10-409-532-38	Sequence 38, Appl
30	228	62.1	47	14	US-10-091-166B-39	Sequence 39, Appl
31	228	62.1	47	14	US-10-272-121-39	Sequence 39, Appl
32	228	62.1	47	14	US-10-409-366-39	Sequence 39, Appl
33	228	62.1	47	14	US-10-409-532-39	Sequence 39, Appl
34	223	60.8	46	14	US-10-091-166B-40	Sequence 40, Appl
35	223	60.8	46	14	US-10-272-121-40	Sequence 40, Appl
36	223	60.8	46	14	US-10-409-366-40	Sequence 40, Appl
37	223	60.8	46	14	US-10-409-532-40	Sequence 40, Appl
38	220	59.9	46	14	US-10-091-166B-41	Sequence 41, Appl
39	220	59.9	46	14	US-10-272-121-41	Sequence 41, Appl
40	220	59.9	46	14	US-10-409-366-41	Sequence 41, Appl
41	220	59.9	46	14	US-10-409-532-41	Sequence 41, Appl
42	215	58.6	45	14	US-10-091-166B-42	Sequence 42, Appl
43	215	58.6	45	14	US-10-272-121-42	Sequence 42, Appl
44	215	58.6	45	14	US-10-409-366-42	Sequence 42, Appl
45	215	58.6	45	14	US-10-409-532-42	Sequence 42, Appl

ALIGNMENTS

RESULT 1
US-09-917-340-52
; Sequence 52, Application US/09917340
; Patent No. US20020090369A1
; GENERAL INFORMATION:
; APPLICANT: Murphy, Christopher J.
; APPLICANT: McAnulty, Jonathan F.
; APPLICANT: Reid, Ted W.
; TITLE OF INVENTION: Transplant Media
; FILE REFERENCE: TPLANT-06468
; CURRENT APPLICATION NUMBER: US/09/917,340
; CURRENT FILING DATE: 2001-07-29
; PRIOR APPLICATION NUMBER: 60/221,632
; PRIOR FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: 60/249,602
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: 60/290,932
; PRIOR FILING DATE: 2001-05-15
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 52
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-917-340-52

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QY	1	MRIHYLLFALLFLVVPVPGHGINTLQKYYCVRVGRCAVLSCLPKBEOIGKSTRGR	60
Db	1	MRIHYLLFALLFLVVPVPGHGINTLQKYYCVRVGRCAVLSCLPKBEOIGKSTRGR	60
QY	61	KCCRRKK	67
Db	61	KCCRRKK	67

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RESULT 2
US-09-917-340-72
; Sequence 72, Application US/09917340
; Patent No. US20020090369A1
; GENERAL INFORMATION:
; APPLICANT: Murphy, Christopher J.
; APPLICANT: McAnulty, Jonathan F.
; APPLICANT: Reid, Ted W.
; TITLE OF INVENTION: Transplant Media
; FILE REFERENCE: TPLANT-06468
; CURRENT APPLICATION NUMBER: US/09/917,340
; CURRENT FILING DATE: 2001-07-29
; PRIOR APPLICATION NUMBER: 60/221,632
; PRIOR FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: 60/249,602
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: 60/290,932
; PRIOR FILING DATE: 2001-05-15
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 72
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-917-340-72
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Query Match      100.0%; Score 367; DB 9; Length 67;
Best Local Similarity 100.0%; Pred. No. 2.7e-37;
Matches 67; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      61 KCCRRKK 67
Db      61 KCCRRKK 67
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RESULT 3
US-09-872-852-2
; Sequence 2, Application US/09872852
; Patent No. US20020115602A1
; GENERAL INFORMATION:
; APPLICANT: MCCRAY JR, PAUL B.
; APPLICANT: TACK, BRIAN
; APPLICANT: JIA, HONG PENG
; APPLICANT: SCHUTTE, BRIAN C.
; TITLE OF INVENTION: HUMAN BETA-DEFENSIN-3 (HBD-3), A HIGHLY CATIONIC
; TITLE OF INVENTION: BETA-DEFENSIN ANTIMICROBIAL PEPTIDE
; FILE REFERENCE: IOWA:031US
; CURRENT APPLICATION NUMBER: US/09/872,852
; CURRENT FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: 60/208,792
; PRIOR FILING DATE: 2000-06-01
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-09-872-852-2
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Best Local Similarity 100.0%; Pred. No. 2.7e-37;
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Db      1 MRIHYLLFALLFLFVPGHGGIINTLQKYYCVRVGRCAVLSCLPKKEQIGKSTRGR 60
QY      61 KCCRRKK 67
Db      61 KCCRRKK 67
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RESULT 4
US-10-091-166B-10
; Sequence 10, Application US/10091166B
; Publication No. US20030143671A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44D1
; CURRENT APPLICATION NUMBER: US/10/091,166B
; CURRENT FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 09/636,399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: US 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/058,335
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-091-166B-10
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Query Match      100.0%; Score 367; DB 14; Length 67;
Best Local Similarity 100.0%; Pred. No. 2.7e-37;
Matches 67; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db      1 MRIHYLLFALLFLFVPGHGGIINTLQKYYCVRVGRCAVLSCLPKKEQIGKSTRGR 60
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QY      61 KCCRRKK 67
Db      61 KCCRRKK 67
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RESULT 5
US-10-272-121-10
; Sequence 10, Application US/10272121
; Publication No. US20030157638A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44D2
; CURRENT APPLICATION NUMBER: US/10/272,121
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 09/636,399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: US 60/064,294
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; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/058,335
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-272-121-10
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Query Match      100.0%; Score 367; DB 14; Length 67;
Best Local Similarity 100.0%; Pred. No. 2.7e-37;
Matches 67; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db       1 MRIHYLLFALLFLFLVPVPGHGIINTLQKYYCVRVGGRCAYLSCLPKEQIGKSTRGR 60

QY      61 KCCRRKK 67
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Db       61 KCCRRKK 67
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RESULT 6
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; Publication No. US20030166912A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/10/409,366
; CURRENT FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 67
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; ORGANISM: Homo sapiens
US-10-409-366-10
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Query Match      100.0%; Score 367; DB 14; Length 67;
Best Local Similarity 100.0%; Pred. No. 2.7e-37;
Matches 67; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db       1 MRIHYLLFALLFLFLVPVPGHGIINTLQKYYCVRVGGRCAYLSCLPKEQIGKSTRGR 60

QY      61 KCCRRKK 67
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Db       61 KCCRRKK 67
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US-10-409-532-10
; Sequence 10, Application US/10409532
; Publication No. US20030166913A1
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; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/10/409,532
; CURRENT FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-409-532-10
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Query Match      100.0%; Score 367; DB 14; Length 67;
Best Local Similarity 100.0%; Pred. No. 2.7e-37;
Matches 67; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db       1 MRIHYLLFALLFLFLVPVPGHGIINTLQKYYCVRVGGRCAYLSCLPKEQIGKSTRGR 60

QY      61 KCCRRKK 67
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Db       61 KCCRRKK 67
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RESULT 8
US-10-091-166B-2
; Sequence 2, Application US/10091166B
; Publication No. US20030143671A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44D1
; CURRENT APPLICATION NUMBER: US/10/091,166B
; CURRENT FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 09/636,399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/058,335
; PRIOR FILING DATE: 1997-09-10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-091-166B-2
```

Query Match 97.3%; Score 357; DB 14; Length 65;
Best Local Similarity 100.0%; Pred. No. 4.3e-36;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRIHYLLFALLFLFLVPPGHGGINTLQKYCVRVGRCAVLSCLPKKEQIGKCTRGR 60
Db 1 MRIHYLLFALLFLFLVPPGHGGINTLQKYCVRVGRCAVLSCLPKKEQIGKCTRGR 60

QY 61 KCCRR 65
Db 61 KCCRR 65

RESULT 9
US-10-272-121-2

; Sequence 2, Application US/10272121
; Publication No. US20030157638A1

; GENERAL INFORMATION:

; APPLICANT: Adler, David A.

; APPLICANT: Holloway, James L.

; APPLICANT: Baidur, Nand

; APPLICANT: Beigel-Orme, Stephanie

; APPLICANT: Sheppard, Paul O.

; TITLE OF INVENTION: NOVEL BETA-DEFENSINS

; FILE REFERENCE: 97-44D2

; CURRENT APPLICATION NUMBER: US/10/272,121

; CURRENT FILING DATE: 2002-10-15

; PRIOR APPLICATION NUMBER: US 09/636,399

; PRIOR FILING DATE: 2000-08-10

; PRIOR APPLICATION NUMBER: US 09/344,097

; PRIOR FILING DATE: 1999-06-25

; PRIOR APPLICATION NUMBER: US 09/150,786

; PRIOR FILING DATE: 1998-09-10

; PRIOR APPLICATION NUMBER: US 60/064,294

; PRIOR FILING DATE: 1997-11-05

; PRIOR APPLICATION NUMBER: US 60/058,335

; PRIOR FILING DATE: 1997-09-10

; NUMBER OF SEQ ID NOS: 72

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 2

; LENGTH: 65

; TYPE: PRT

; ORGANISM: Homo sapiens

; US-10-272-121-2

Query Match 97.3%; Score 357; DB 14; Length 65;
Best Local Similarity 100.0%; Pred. No. 4.3e-36;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRIHYLLFALLFLFLVPPGHGGINTLQKYCVRVGRCAVLSCLPKKEQIGKCTRGR 60
Db 1 MRIHYLLFALLFLFLVPPGHGGINTLQKYCVRVGRCAVLSCLPKKEQIGKCTRGR 60

QY 61 KCCRR 65
Db 61 KCCRR 65

RESULT 10
US-10-409-366-2

; Sequence 2, Application US/10409366
; Publication No. US20030166912A1

; GENERAL INFORMATION:

; APPLICANT: Adler, David A.

; APPLICANT: Holloway, James L.

; APPLICANT: Baidur, Nand

; APPLICANT: Beigel-Orme, Stephanie

; APPLICANT: Sheppard, Paul O.

; TITLE OF INVENTION: NOVEL BETA-DEFENSINS

; FILE REFERENCE: 97-44C2

; CURRENT APPLICATION NUMBER: US/10/409,366

; CURRENT FILING DATE: 2003-04-07

; PRIOR APPLICATION NUMBER: US/09/636,399A

; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-409-366-2

Query Match 97.3%; Score 357; DB 14; Length 65;
Best Local Similarity 100.0%; Pred. No. 4.3e-36;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRIHYLLFALLFLFLVPPGHGGINTLQKYCVRVGRCAVLSCLPKKEQIGKCTRGR 60
Db 1 MRIHYLLFALLFLFLVPPGHGGINTLQKYCVRVGRCAVLSCLPKKEQIGKCTRGR 60

QY 61 KCCRR 65
Db 61 KCCRR 65

RESULT 11
US-10-409-532-2

; Sequence 2, Application US/10409532
; Publication No. US20030166913A1

; GENERAL INFORMATION:

; APPLICANT: Adler, David A.

; APPLICANT: Holloway, James L.

; APPLICANT: Baidur, Nand

; APPLICANT: Beigel-Orme, Stephanie

; APPLICANT: Sheppard, Paul O.

; TITLE OF INVENTION: NOVEL BETA-DEFENSINS

; FILE REFERENCE: 97-44C2

; CURRENT APPLICATION NUMBER: US/10/409,532

; CURRENT FILING DATE: 2003-04-07

; PRIOR APPLICATION NUMBER: US/09/636,399A

; PRIOR FILING DATE: 2000-08-10

; PRIOR APPLICATION NUMBER: 60/058,335

; PRIOR FILING DATE: 1997-10-09

; PRIOR APPLICATION NUMBER: 60/064,294

; PRIOR FILING DATE: 1997-11-05

; PRIOR APPLICATION NUMBER: 09/150,786

; PRIOR FILING DATE: 1998-09-10

; PRIOR APPLICATION NUMBER: 09/636,399

; PRIOR FILING DATE: 2000-08-10

; NUMBER OF SEQ ID NOS: 72

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 2

; LENGTH: 65

; TYPE: PRT

; ORGANISM: Homo sapiens

; US-10-409-532-2

Query Match 97.3%; Score 357; DB 14; Length 65;
Best Local Similarity 100.0%; Pred. No. 4.3e-36;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRIHYLLFALLFLFLVPPGHGGINTLQKYCVRVGRCAVLSCLPKKEQIGKCTRGR 60
Db 1 MRIHYLLFALLFLFLVPPGHGGINTLQKYCVRVGRCAVLSCLPKKEQIGKCTRGR 60

QY 61 KCCRR 65
Db 61 KCCRR 65

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RESULT 12
US-09-872-852-4
; Sequence 4, Application US/09872852
; Patent No. US20020115602A1
; GENERAL INFORMATION:
; APPLICANT: MCCRAY JR, PAUL B.
; APPLICANT: TACK, BRIAN
; APPLICANT: JIA, HONG PENG
; APPLICANT: SCHUTTE, BRIAN C.
; TITLE OF INVENTION: HUMAN BETA-DEFENSIN-3 (HBD-3), A HIGHLY CATIONIC
; TITLE OF INVENTION: BETA-DEFENSIN ANTIMICROBIAL PEPTIDE
; FILE REFERENCE: IOWA:031US
; CURRENT APPLICATION NUMBER: US/09/872,852
; CURRENT FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: 60/208,792
; PRIOR FILING DATE: 2000-06-01
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 45
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-09-872-852-4

Query Match      68.1%; Score 250; DB 9; Length 45;
Best Local Similarity 100.0%; Pred. No. 3.6e-23;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      23 GIINTLQKYCYCRVGRGCAVLSCLPKEEQIGKCTRGRKCCRRKK 67
Db      1 GIINTLQKYCYCRVGRGCAVLSCLPKEEQIGKCTRGRKCCRRKK 45

RESULT 13
US-10-091-166B-35
; Sequence 35, Application US/10091166B
; Publication No. US20030143671A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44D1
; CURRENT APPLICATION NUMBER: US/10/091,166B
; CURRENT FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 09/636,399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: US 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/058,335
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 49
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
```

```
; OTHER INFORMATION: leucine, isoleucine, valine, phenylalanine, or
; OTHER INFORMATION: methionine
US-10-091-166B-35

Query Match      65.7%; Score 241; DB 14; Length 49;
Best Local Similarity 91.8%; Pred. No. 5e-22;
Matches 45; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      19 PGHGGIINTLQKYCYCRVGRGCAVLSCLPKEEQIGKCTRGRKCCRRKK 67
Db      1 PGHGGIINTLQLYCYCRVGRGCAVLSCLPKEECIGKMTGRKCCRRKK 49

RESULT 14
US-10-272-121-35
; Sequence 35, Application US/10272121
; Publication No. US20030157638A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44D2
; CURRENT APPLICATION NUMBER: US/10/272,121
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 09/636,399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: US 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/058,335
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 49
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (45)...(45)
; OTHER INFORMATION: leucine, isoleucine, valine, phenylalanine, or
; OTHER INFORMATION: methionine
US-10-272-121-35

Query Match      65.7%; Score 241; DB 14; Length 49;
Best Local Similarity 91.8%; Pred. No. 5e-22;
Matches 45; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      19 PGHGGIINTLQKYCYCRVGRGCAVLSCLPKEEQIGKCTRGRKCCRRKK 67
Db      1 PGHGGIINTLQLYCYCRVGRGCAVLSCLPKEECIGKMTGRKCCRRKK 49

RESULT 15
US-10-409-366-35
; Sequence 35, Application US/10409366
; Publication No. US20030166912A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
```

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; CURRENT APPLICATION NUMBER: US/10/409,366
; CURRENT FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 49
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (45)...(45)
; OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
US-10-409-366-35

```

```

Query Match      65.7%; Score 241; DB 14; Length 49;
Best Local Similarity 91.8%; Pred. No. Se-22;
Matches 45; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      19 PGHGIINTLQKYCRVGGRCVLSCLPKKEQIGKCGSTRGRKCCRRKK 67
Db      1 PGHGIINTLQLYYCRVGGRCVLSCLPKKECTIGKMGSTRGRKCCRRKK 49

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Search completed: May 17, 2004, 18:11:57
Job time : 47.2941 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 17, 2004, 17:49:00 ; Search time 12.3529 Seconds
(without alignments)
188.066 Million cell updates/sec

Title: US-09-872-852-4
Perfect score: 250
Sequence: 1 GIINTLQKYYCRVGRGRCV.....KEEQIGKCTRGKCCRRKK 45

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	250	100.0	67	4	US-09-636-399A-10 Sequence 10, Appl
2	240	96.0	65	4	US-09-636-399A-2 Sequence 2, Appl
3	214	85.6	45	4	US-09-636-399A-43 Sequence 43, Appl
4	214	85.6	46	4	US-09-636-399A-41 Sequence 41, Appl
5	214	85.6	47	4	US-09-636-399A-39 Sequence 39, Appl
6	214	85.6	48	4	US-09-636-399A-37 Sequence 37, Appl
7	214	85.6	49	4	US-09-636-399A-35 Sequence 35, Appl
8	209	83.6	44	4	US-09-636-399A-44 Sequence 44, Appl
9	209	83.6	45	4	US-09-636-399A-42 Sequence 42, Appl
10	209	83.6	46	4	US-09-636-399A-40 Sequence 40, Appl
11	209	83.6	47	4	US-09-636-399A-38 Sequence 38, Appl
12	209	83.6	48	4	US-09-636-399A-36 Sequence 36, Appl
13	208	83.2	44	4	US-09-636-399A-20 Sequence 20, Appl
14	208	83.2	44	4	US-09-636-399A-45 Sequence 44, Appl
15	204	81.6	43	4	US-09-636-399A-23 Sequence 23, Appl
16	204	81.6	43	4	US-09-636-399A-47 Sequence 47, Appl
17	203	81.2	43	4	US-09-636-399A-21 Sequence 21, Appl
18	203	81.2	43	4	US-09-636-399A-46 Sequence 46, Appl
19	200	80.0	42	4	US-09-636-399A-26 Sequence 26, Appl
20	200	80.0	42	4	US-09-636-399A-49 Sequence 49, Appl
21	199	79.6	42	4	US-09-636-399A-24 Sequence 24, Appl
22	199	79.6	42	4	US-09-636-399A-48 Sequence 48, Appl
23	198	79.2	42	4	US-09-636-399A-22 Sequence 22, Appl
24	195	78.0	41	4	US-09-636-399A-27 Sequence 27, Appl
25	195	78.0	41	4	US-09-636-399A-50 Sequence 50, Appl
26	194	77.6	41	4	US-09-636-399A-25 Sequence 25, Appl
27	194	77.6	41	4	US-09-636-399A-29 Sequence 29, Appl

28	194	77.6	41	4	US-09-636-399A-51 Sequence 51, Appl
29	190	76.0	40	4	US-09-636-399A-28 Sequence 28, Appl
30	189	75.6	40	4	US-09-636-399A-30 Sequence 30, Appl
31	189	75.6	40	4	US-09-636-399A-32 Sequence 32, Appl
32	189	75.6	40	4	US-09-636-399A-52 Sequence 52, Appl
33	189	75.6	40	4	US-09-636-399A-53 Sequence 53, Appl
34	185	74.0	39	4	US-09-636-399A-19 Sequence 19, Appl
35	185	74.0	39	4	US-09-636-399A-55 Sequence 55, Appl
36	184	73.6	39	4	US-09-636-399A-31 Sequence 31, Appl
37	184	73.6	39	4	US-09-636-399A-33 Sequence 33, Appl
38	184	73.6	39	4	US-09-636-399A-54 Sequence 54, Appl
39	182	72.8	37	4	US-09-636-399A-59 Sequence 59, Appl
40	182	72.8	38	4	US-09-636-399A-57 Sequence 57, Appl
41	180	72.0	38	4	US-09-636-399A-18 Sequence 18, Appl
42	180	72.0	38	4	US-09-636-399A-56 Sequence 56, Appl
43	179	71.6	38	4	US-09-636-399A-34 Sequence 34, Appl
44	177	70.8	36	4	US-09-636-399A-60 Sequence 60, Appl
45	177	70.8	37	4	US-09-636-399A-58 Sequence 58, Appl

ALIGNMENTS

RESULT 1
US-09-636-399A-10
Sequence 10, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baindur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 67
TYPE: PRT
ORGANISM: Homo sapiens
US-09-636-399A-10
Query Match 100.0%; Score 250; DB 4; Length 67;
Best Local Similarity 100.0%; Pred. No. 2.8e-24;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GIINTLQKYYCRVGRGRCVLSCLPKEQIGKCTRGKCCRRKK 45
DB 23 GIINTLQKYYCRVGRGRCVLSCLPKEQIGKCTRGKCCRRKK 67
RESULT 2
US-09-636-399A-2
Sequence 2, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baindur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS


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/ FILE REFERENCE: 97-44C2
/ CURRENT APPLICATION NUMBER: US/09/636,399A
/ CURRENT FILING DATE: 2000-08-10
/ PRIOR APPLICATION NUMBER: 60/058,335
/ PRIOR FILING DATE: 1997-10-09
/ PRIOR APPLICATION NUMBER: 60/064,294
/ PRIOR FILING DATE: 1997-11-05
/ PRIOR APPLICATION NUMBER: 09/150,786
/ PRIOR FILING DATE: 1998-09-10
/ PRIOR APPLICATION NUMBER: 09/636,399
/ PRIOR FILING DATE: 2000-08-10
/ NUMBER OF SEQ ID NOS: 72
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 2
/ LENGTH: 65
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-636-399A-2
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Query Match          96.0%; Score 240; DB 4; Length 65;
Best Local Similarity 100.0%; Pred. No. 4.7e-23;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 GIINTLQKYCYCRVGRGRCVAVLSCLPKKEQIGKCGSTRGRKCCRR 43
          |||||
Db       23 GIINTLQKYCYCRVGRGRCVAVLSCLPKKEQIGKCGSTRGRKCCRR 65
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RESULT 3
US-09-636-399A-43
/ Sequence 43, Application US/09636399A
/ Patent No. 6576755
/ GENERAL INFORMATION:
```

```
/ APPLICANT: Adler, David A.
/ APPLICANT: Holloway, James L.
/ APPLICANT: Baidur, Nand
/ APPLICANT: Beigel-Orme, Stephanie
/ APPLICANT: Sheppard, Paul O.
/ TITLE OF INVENTION: NOVEL BETA-DEFENSINS
/ FILE REFERENCE: 97-44C2
/ CURRENT APPLICATION NUMBER: US/09/636,399A
/ CURRENT FILING DATE: 2000-08-10
/ PRIOR APPLICATION NUMBER: 60/058,335
/ PRIOR FILING DATE: 1997-10-09
/ PRIOR APPLICATION NUMBER: 60/064,294
/ PRIOR FILING DATE: 1997-11-05
/ PRIOR APPLICATION NUMBER: 09/150,786
/ PRIOR FILING DATE: 1998-09-10
/ PRIOR APPLICATION NUMBER: 09/636,399
/ PRIOR FILING DATE: 2000-08-10
/ NUMBER OF SEQ ID NOS: 72
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 43
/ LENGTH: 45
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Defensin polypeptide
/ NAME/KEY: VARIANT
/ LOCATION: (41)...(41)
/ OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
US-09-636-399A-43
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Query Match          85.6%; Score 214; DB 4; Length 45;
Best Local Similarity 91.1%; Pred. No. 5.7e-20;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
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```
QY      1 GIINTLQKYCYCRVGRGRCVAVLSCLPKKEQIGKCGSTRGRKCCRR 45
          |||||
Db       1 GIINTLQLYCYCRVGRGRCVAVLSCLPKKECTIGKMGSTRGRKCCRR 45
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RESULT 4

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US-09-636-399A-41
/ Sequence 41, Application US/09636399A
/ Patent No. 6576755
/ GENERAL INFORMATION:
/ APPLICANT: Adler, David A.
/ APPLICANT: Holloway, James L.
/ APPLICANT: Baidur, Nand
/ APPLICANT: Beigel-Orme, Stephanie
/ APPLICANT: Sheppard, Paul O.
/ TITLE OF INVENTION: NOVEL BETA-DEFENSINS
/ FILE REFERENCE: 97-44C2
/ CURRENT APPLICATION NUMBER: US/09/636,399A
/ CURRENT FILING DATE: 2000-08-10
/ PRIOR APPLICATION NUMBER: 60/058,335
/ PRIOR FILING DATE: 1997-10-09
/ PRIOR APPLICATION NUMBER: 60/064,294
/ PRIOR FILING DATE: 1997-11-05
/ PRIOR APPLICATION NUMBER: 09/150,786
/ PRIOR FILING DATE: 1998-09-10
/ PRIOR APPLICATION NUMBER: 09/636,399
/ PRIOR FILING DATE: 2000-08-10
/ NUMBER OF SEQ ID NOS: 72
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 41
/ LENGTH: 46
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Defensin polypeptide
/ NAME/KEY: VARIANT
/ LOCATION: (42)...(42)
/ OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
US-09-636-399A-41
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Query Match          85.6%; Score 214; DB 4; Length 46;
Best Local Similarity 91.1%; Pred. No. 5.8e-20;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
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QY      1 GIINTLQKYCYCRVGRGRCVAVLSCLPKKEQIGKCGSTRGRKCCRR 45
          |||||
Db       2 GIINTLQLYCYCRVGRGRCVAVLSCLPKKECTIGKMGSTRGRKCCRR 46
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RESULT 5
US-09-636-399A-39
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/ Sequence 39, Application US/09636399A
/ Patent No. 6576755
/ GENERAL INFORMATION:
/ APPLICANT: Adler, David A.
/ APPLICANT: Holloway, James L.
/ APPLICANT: Baidur, Nand
/ APPLICANT: Beigel-Orme, Stephanie
/ APPLICANT: Sheppard, Paul O.
/ TITLE OF INVENTION: NOVEL BETA-DEFENSINS
/ FILE REFERENCE: 97-44C2
/ CURRENT APPLICATION NUMBER: US/09/636,399A
/ CURRENT FILING DATE: 2000-08-10
/ PRIOR APPLICATION NUMBER: 60/058,335
/ PRIOR FILING DATE: 1997-10-09
/ PRIOR APPLICATION NUMBER: 60/064,294
/ PRIOR FILING DATE: 1997-11-05
/ PRIOR APPLICATION NUMBER: 09/150,786
/ PRIOR FILING DATE: 1998-09-10
/ PRIOR APPLICATION NUMBER: 09/636,399
/ PRIOR FILING DATE: 2000-08-10
/ NUMBER OF SEQ ID NOS: 72
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 39
/ LENGTH: 47
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Defensin polypeptide
```

```
NAME/KEY: VARIANT
LOCATION: (43)...(43)
OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
US-09-636-399A-39
```

```
Query Match      85.6%; Score 214; DB 4; Length 47;
Best Local Similarity 91.1%; Pred. No. 5.9e-20;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      1 GIINTLQKYYCVRVGRGCAVLSCLPKEEQIGKSTRGRKCCRRKK 45
          |||||
DB      3 GIINTLQLYYCRVGRGCAVLSCLPKEECIGKWSTRGRKCCRRKK 47
```

RESULT 6

```
US-09-636-399A-37
Sequence 37, Application US/09636399A
Patent No. 6576755
```

```
GENERAL INFORMATION:
```

```
APPLICANT: Adler, David A.
```

```
APPLICANT: Holloway, James L.
```

```
APPLICANT: Baidur, Nand
```

```
APPLICANT: Beigel-Orme, Stephanie
```

```
APPLICANT: Sheppard, Paul O.
```

```
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
```

```
FILE REFERENCE: 97-44C2
```

```
CURRENT APPLICATION NUMBER: US/09/636,399A
```

```
CURRENT FILING DATE: 2000-08-10
```

```
PRIOR APPLICATION NUMBER: 60/058,335
```

```
PRIOR FILING DATE: 1997-10-09
```

```
PRIOR APPLICATION NUMBER: 60/064,294
```

```
PRIOR FILING DATE: 1997-11-05
```

```
PRIOR APPLICATION NUMBER: 09/150,786
```

```
PRIOR FILING DATE: 1998-09-10
```

```
PRIOR APPLICATION NUMBER: 09/636,399
```

```
PRIOR FILING DATE: 2000-08-10
```

```
NUMBER OF SEQ ID NOS: 72
```

```
SOFTWARE: FastSeq for Windows Version 3.0
```

```
SEQ ID NO 37
```

```
LENGTH: 48
```

```
TYPE: PRT
```

```
ORGANISM: Artificial Sequence
```

```
FEATURE:
```

```
OTHER INFORMATION: Defensin polypeptide
```

```
NAME/KEY: VARIANT
```

```
LOCATION: (44)...(44)
```

```
OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
```

```
US-09-636-399A-37
```

```
Query Match      85.6%; Score 214; DB 4; Length 48;
Best Local Similarity 91.1%; Pred. No. 6.1e-20;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      1 GIINTLQKYYCVRVGRGCAVLSCLPKEEQIGKSTRGRKCCRRKK 45
          |||||
DB      4 GIINTLQLYYCRVGRGCAVLSCLPKEECIGKWSTRGRKCCRRKK 48
```

RESULT 7

```
US-09-636-399A-35
```

```
Sequence 35, Application US/09636399A
Patent No. 6576755
```

```
GENERAL INFORMATION:
```

```
APPLICANT: Adler, David A.
```

```
APPLICANT: Holloway, James L.
```

```
APPLICANT: Baidur, Nand
```

```
APPLICANT: Beigel-Orme, Stephanie
```

```
APPLICANT: Sheppard, Paul O.
```

```
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
```

```
FILE REFERENCE: 97-44C2
```

```
CURRENT APPLICATION NUMBER: US/09/636,399A
```

```
CURRENT FILING DATE: 2000-08-10
```

```
PRIOR APPLICATION NUMBER: 60/058,335
```

```
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 35
LENGTH: 49
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
NAME/KEY: VARIANT
LOCATION: (45)...(45)
OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
US-09-636-399A-35
```

```
Query Match      85.6%; Score 214; DB 4; Length 49;
Best Local Similarity 91.1%; Pred. No. 6.2e-20;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      1 GIINTLQKYYCVRVGRGCAVLSCLPKEEQIGKSTRGRKCCRRKK 45
          |||||
DB      5 GIINTLQLYYCRVGRGCAVLSCLPKEECIGKWSTRGRKCCRRKK 49
```

RESULT 8

```
US-09-636-399A-44
Sequence 44, Application US/09636399A
Patent No. 6576755
```

```
GENERAL INFORMATION:
```

```
APPLICANT: Adler, David A.
```

```
APPLICANT: Holloway, James L.
```

```
APPLICANT: Baidur, Nand
```

```
APPLICANT: Beigel-Orme, Stephanie
```

```
APPLICANT: Sheppard, Paul O.
```

```
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
```

```
FILE REFERENCE: 97-44C2
```

```
CURRENT APPLICATION NUMBER: US/09/636,399A
```

```
CURRENT FILING DATE: 2000-08-10
```

```
PRIOR APPLICATION NUMBER: 60/058,335
```

```
PRIOR FILING DATE: 1997-10-09
```

```
PRIOR APPLICATION NUMBER: 60/064,294
```

```
PRIOR FILING DATE: 1997-11-05
```

```
PRIOR APPLICATION NUMBER: 09/150,786
```

```
PRIOR FILING DATE: 1998-09-10
```

```
PRIOR APPLICATION NUMBER: 09/636,399
```

```
PRIOR FILING DATE: 2000-08-10
```

```
NUMBER OF SEQ ID NOS: 72
```

```
SOFTWARE: FastSeq for Windows Version 3.0
```

```
SEQ ID NO 44
```

```
LENGTH: 44
```

```
TYPE: PRT
```

```
ORGANISM: Artificial Sequence
```

```
FEATURE:
```

```
OTHER INFORMATION: Defensin polypeptide
```

```
NAME/KEY: VARIANT
```

```
LOCATION: (41)...(41)
```

```
OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
```

```
US-09-636-399A-44
```

```
Query Match      83.6%; Score 209; DB 4; Length 44;
Best Local Similarity 90.9%; Pred. No. 2.3e-19;
Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      1 GIINTLQKYYCVRVGRGCAVLSCLPKEEQIGKSTRGRKCCRRKK 44
          |||||
DB      1 GIINTLQLYYCRVGRGCAVLSCLPKEECIGKWSTRGRKCCRRKK 44
```

```
RESULT 9
US-09-636-399A-42
; Sequence 42, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 45
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (42)...(42)
; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
US-09-636-399A-42

Query Match      83.6%; Score 209; DB 4; Length 45;
Best Local Similarity 90.9%; Pred. No. 2.4e-19;
Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      1 GIINTLQKYCRVGRGCAVLSCLPKEQIGKCGSTRGRKCCRRK 44
      2 GIINTLQLYCVRVGRGCAVLSCLPKECIGKYSTGRKCCRRK 45

Db      2 GIINTLQLYCVRVGRGCAVLSCLPKECIGKYSTGRKCCRRK 45

RESULT 10
US-09-636-399A-40
; Sequence 40, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 46
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (44)...(44)
; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
US-09-636-399A-38

Query Match      83.6%; Score 209; DB 4; Length 47;
Best Local Similarity 90.9%; Pred. No. 2.5e-19;
Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      1 GIINTLQKYCRVGRGCAVLSCLPKEQIGKCGSTRGRKCCRRK 44
      4 GIINTLQLYCVRVGRGCAVLSCLPKECIGKYSTGRKCCRRK 47

Db      4 GIINTLQLYCVRVGRGCAVLSCLPKECIGKYSTGRKCCRRK 47

RESULT 11
US-09-636-399A-38
; Sequence 38, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 47
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (44)...(44)
; OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met.
US-09-636-399A-36

Query Match      83.6%; Score 209; DB 4; Length 47;
Best Local Similarity 90.9%; Pred. No. 2.5e-19;
Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      1 GIINTLQKYCRVGRGCAVLSCLPKEQIGKCGSTRGRKCCRRK 44
      4 GIINTLQLYCVRVGRGCAVLSCLPKECIGKYSTGRKCCRRK 47

Db      4 GIINTLQLYCVRVGRGCAVLSCLPKECIGKYSTGRKCCRRK 47

RESULT 12
US-09-636-399A-36
; Sequence 36, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
```

```
OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (43)...(43)
; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
US-09-636-399A-40

Query Match      83.6%; Score 209; DB 4; Length 46;
Best Local Similarity 90.9%; Pred. No. 2.4e-19;
Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      1 GIINTLQKYCRVGRGCAVLSCLPKEQIGKCGSTRGRKCCRRK 44
      3 GIINTLQLYCVRVGRGCAVLSCLPKECIGKYSTGRKCCRRK 46

Db      3 GIINTLQLYCVRVGRGCAVLSCLPKECIGKYSTGRKCCRRK 46

RESULT 11
US-09-636-399A-38
; Sequence 38, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 47
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (44)...(44)
; OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met.
US-09-636-399A-38

Query Match      83.6%; Score 209; DB 4; Length 47;
Best Local Similarity 90.9%; Pred. No. 2.5e-19;
Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      1 GIINTLQKYCRVGRGCAVLSCLPKEQIGKCGSTRGRKCCRRK 44
      4 GIINTLQLYCVRVGRGCAVLSCLPKECIGKYSTGRKCCRRK 47

Db      4 GIINTLQLYCVRVGRGCAVLSCLPKECIGKYSTGRKCCRRK 47

RESULT 12
US-09-636-399A-36
; Sequence 36, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
```

```
/ PRIOR APPLICATION NUMBER: 60/058,335
/ PRIOR FILING DATE: 1997-10-09
/ PRIOR APPLICATION NUMBER: 60/064,294
/ PRIOR FILING DATE: 1997-11-05
/ PRIOR APPLICATION NUMBER: 09/150,786
/ PRIOR FILING DATE: 1998-09-10
/ PRIOR APPLICATION NUMBER: 09/636,399
/ PRIOR FILING DATE: 2000-08-10
/ NUMBER OF SEQ ID NOS: 72
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 36
/ LENGTH: 48
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Defensin polypeptide
/ NAME/KEY: VARIANT
/ LOCATION: (45)...(45)
/ OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
US-09-636-399A-36
```

```
Query Match      83.6%; Score 209; DB 4; Length 48;
Best Local Similarity 90.9%; Pred. No. 2.5e-19;
Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      1 GIINTLQKYYCRVRGGRCAYLSCLPKKEQIGKSTRGRKCCRKK 44
          |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db      5 GIINTLQLYCVRVGGRCAYLSCLPKKECIGKSTRGRKCCRKK 48
```

RESULT 13
US-09-636-399A-20

```
/ Sequence 20, Application US/09636399A
/ Patent No. 6576755
/ GENERAL INFORMATION:
/ APPLICANT: Adler, David A.
/ APPLICANT: Holloway, James L.
/ APPLICANT: Baidur, Nand
/ APPLICANT: Beigel-Orme, Stephanie
/ APPLICANT: Sheppard, Paul O.
/ TITLE OF INVENTION: NOVEL BETA-DEFENSINS
/ FILE REFERENCE: 97-44C2
/ CURRENT APPLICATION NUMBER: US/09/636,399A
/ CURRENT FILING DATE: 2000-08-10
/ PRIOR APPLICATION NUMBER: 60/058,335
/ PRIOR FILING DATE: 1997-10-09
/ PRIOR APPLICATION NUMBER: 60/064,294
/ PRIOR FILING DATE: 1997-11-05
/ PRIOR APPLICATION NUMBER: 09/150,786
/ PRIOR FILING DATE: 1998-09-10
/ PRIOR APPLICATION NUMBER: 09/636,399
/ PRIOR FILING DATE: 2000-08-10
/ NUMBER OF SEQ ID NOS: 72
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 20
/ LENGTH: 44
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Defensin Polypeptide
US-09-636-399A-20
```

```
Query Match      83.2%; Score 208; DB 4; Length 44;
Best Local Similarity 90.9%; Pred. No. 3.1e-19;
Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      2 IINTLQKYYCRVRGGRCAYLSCLPKKEQIGKSTRGRKCCRKK 45
          |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db      1 IINTLQKYYCVRVGGRCAYLSCLPKKEQIYKSTRYRKCRRKK 44
```

RESULT 14
US-09-636-399A-45

```
/ Sequence 45, Application US/09636399A
/ Patent No. 6576755
/ GENERAL INFORMATION:
/ APPLICANT: Adler, David A.
/ APPLICANT: Holloway, James L.
/ APPLICANT: Baidur, Nand
/ APPLICANT: Beigel-Orme, Stephanie
/ APPLICANT: Sheppard, Paul O.
/ TITLE OF INVENTION: NOVEL BETA-DEFENSINS
/ FILE REFERENCE: 97-44C2
/ CURRENT APPLICATION NUMBER: US/09/636,399A
/ CURRENT FILING DATE: 2000-08-10
/ PRIOR APPLICATION NUMBER: 60/058,335
/ PRIOR FILING DATE: 1997-10-09
/ PRIOR APPLICATION NUMBER: 60/064,294
/ PRIOR FILING DATE: 1997-11-05
/ PRIOR APPLICATION NUMBER: 09/150,786
/ PRIOR FILING DATE: 1998-09-10
/ PRIOR APPLICATION NUMBER: 09/636,399
/ PRIOR FILING DATE: 2000-08-10
/ NUMBER OF SEQ ID NOS: 72
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 45
/ LENGTH: 44
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Defensin polypeptide
/ NAME/KEY: VARIANT
/ LOCATION: (40)...(40)
/ OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, Met.
US-09-636-399A-45
```

```
Query Match      83.2%; Score 208; DB 4; Length 44;
Best Local Similarity 90.9%; Pred. No. 3.1e-19;
Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      2 IINTLQKYYCRVRGGRCAYLSCLPKKEQIGKSTRGRKCCRKK 45
          |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db      1 IINTLQLYCVRVGGRCAYLSCLPKKECIGKSTRGRKCCRKK 44
```

RESULT 15
US-09-636-399A-23

```
/ Sequence 23, Application US/09636399A
/ Patent No. 6576755
/ GENERAL INFORMATION:
/ APPLICANT: Adler, David A.
/ APPLICANT: Holloway, James L.
/ APPLICANT: Baidur, Nand
/ APPLICANT: Beigel-Orme, Stephanie
/ APPLICANT: Sheppard, Paul O.
/ TITLE OF INVENTION: NOVEL BETA-DEFENSINS
/ FILE REFERENCE: 97-44C2
/ CURRENT APPLICATION NUMBER: US/09/636,399A
/ CURRENT FILING DATE: 2000-08-10
/ PRIOR APPLICATION NUMBER: 60/058,335
/ PRIOR FILING DATE: 1997-10-09
/ PRIOR APPLICATION NUMBER: 60/064,294
/ PRIOR FILING DATE: 1997-11-05
/ PRIOR APPLICATION NUMBER: 09/150,786
/ PRIOR FILING DATE: 1998-09-10
/ PRIOR APPLICATION NUMBER: 09/636,399
/ PRIOR FILING DATE: 2000-08-10
/ NUMBER OF SEQ ID NOS: 72
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 23
/ LENGTH: 43
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Defensin polypeptide
US-09-636-399A-23
```

RESULT 14
US-09-636-399A-23

Query Match 81.6%; Score 204; DB 4; Length 43;
Best Local Similarity 90.7%; Pred. No. 9.6e-19;
Matches 39; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 INTLQKYYCRVRGRCVLSCLPKEEQIGKCTRGRKCCRRKK 45
|||||
Db 1 INTLQKYYCRVRYYRCVLSCLPKEEQIYKCTRYYRKCRRKK 43
|||||

Search completed: May 17, 2004, 18:00:27
Job time : 12.3529 secs

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OM protein - protein search, using sw model

Run on: May 17, 2004, 17:58:35 ; Search time 31.7647 Seconds
(without alignments)
394.204 Million cell updates/sec

Title: US-09-872-852-4

Perfect score: 250
Sequence: 1 GIINTLQKYYCVRGRCAY.....KEQIGKSTGRKCCRKK 45

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
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- 6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep:*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep:*
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- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*
- 16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
- 17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
- 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. NO. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	250	100.0	67	9	US-09-917-340-52
3	250	100.0	67	9	US-09-917-340-72
4	250	100.0	67	9	US-09-872-852-2
5	250	100.0	67	14	US-10-091-166B-10
6	250	100.0	67	14	US-10-272-121-10
7	250	100.0	67	14	US-10-409-366-10
8	250	100.0	67	14	US-10-409-532-10
9	240	96.0	65	14	US-10-091-166B-2
10	240	96.0	65	14	US-10-272-121-2
11	240	96.0	65	14	US-10-409-366-2
12	240	96.0	65	14	US-10-409-532-2
13	230	92.0	41	9	US-09-872-852-3
14	214	85.6	45	14	US-10-091-166B-43
15	214	85.6	45	14	US-10-272-121-43

16	214	85.6	45	14	US-10-409-366-43	Sequence 43, Appl
17	214	85.6	45	14	US-10-409-532-43	Sequence 43, Appl
18	214	85.6	46	14	US-10-091-166B-41	Sequence 41, Appl
19	214	85.6	46	14	US-10-272-121-41	Sequence 41, Appl
20	214	85.6	46	14	US-10-409-366-41	Sequence 41, Appl
21	214	85.6	46	14	US-10-409-532-41	Sequence 41, Appl
22	214	85.6	47	14	US-10-091-166B-39	Sequence 39, Appl
23	214	85.6	47	14	US-10-272-121-39	Sequence 39, Appl
24	214	85.6	47	14	US-10-409-366-39	Sequence 39, Appl
25	214	85.6	47	14	US-10-409-532-39	Sequence 39, Appl
26	214	85.6	48	14	US-10-091-166B-37	Sequence 37, Appl
27	214	85.6	48	14	US-10-272-121-37	Sequence 37, Appl
28	214	85.6	48	14	US-10-409-366-37	Sequence 37, Appl
29	214	85.6	48	14	US-10-409-532-37	Sequence 37, Appl
30	214	85.6	49	14	US-10-091-166B-35	Sequence 35, Appl
31	214	85.6	49	14	US-10-272-121-35	Sequence 35, Appl
32	214	85.6	49	14	US-10-409-366-35	Sequence 35, Appl
33	214	85.6	49	14	US-10-409-532-35	Sequence 35, Appl
34	209	83.6	44	14	US-10-091-166B-44	Sequence 44, Appl
35	209	83.6	44	14	US-10-272-121-44	Sequence 44, Appl
36	209	83.6	44	14	US-10-409-366-44	Sequence 44, Appl
37	209	83.6	44	14	US-10-409-532-44	Sequence 44, Appl
38	209	83.6	45	14	US-10-091-166B-42	Sequence 42, Appl
39	209	83.6	45	14	US-10-272-121-42	Sequence 42, Appl
40	209	83.6	45	14	US-10-409-366-42	Sequence 42, Appl
41	209	83.6	45	14	US-10-409-532-42	Sequence 42, Appl
42	209	83.6	46	14	US-10-091-166B-40	Sequence 40, Appl
43	209	83.6	46	14	US-10-272-121-40	Sequence 40, Appl
44	209	83.6	46	14	US-10-409-366-40	Sequence 40, Appl
45	209	83.6	46	14	US-10-409-532-40	Sequence 40, Appl

ALIGNMENTS

RESULT 1
US-09-872-852-4
Sequence 4, Application US/09872852
Patent No. US20020115602A1
GENERAL INFORMATION:
APPLICANT: MCCRAY JR, PAUL B.
APPLICANT: TACK, BRIAN
APPLICANT: JIA, HONG PENG
APPLICANT: SCHUTTE, BRIAN C.
TITLE OF INVENTION: HUMAN BETA-DEFENSIN-3 (HBD-3), A HIGHLY CATIONIC
FILE REFERENCE: IOWA:031US
CURRENT APPLICATION NUMBER: US/09/872,852
CURRENT FILING DATE: 2001-06-01
PRIOR APPLICATION NUMBER: 60/208,792
PRIOR FILING DATE: 2000-06-01
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 4
LENGTH: 45
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-872-852-4

Query Match 100.0%; Score 250; DB 9; Length 45;
Best Local Similarity 100.0%; Pred. No. 1.2e-23;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GIINTLQKYYCVRGRCAYLSCLPKEQIGKSTGRKCCRKK 45
Db 1 GIINTLQKYYCVRGRCAYLSCLPKEQIGKSTGRKCCRKK 45

RESULT 2
US-09-917-340-52

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; Sequence 52, Application US/09917340
; Patent No. US20020090369A1
; GENERAL INFORMATION:
; APPLICANT: Murphy, Christopher J.
; APPLICANT: McAnulty, Jonathan F.
; APPLICANT: Reid, Ted W.
; TITLE OF INVENTION: Transplant Media
; FILE REFERENCE: TPLANT-06468
; CURRENT APPLICATION NUMBER: US/09/917,340
; CURRENT FILING DATE: 2001-07-29
; PRIOR APPLICATION NUMBER: 60/221,632
; PRIOR FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: 60/249,602
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: 60/290,932
; PRIOR FILING DATE: 2001-05-15
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 52
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-917-340-52
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Best Local Similarity 100.0%; Pred. No. 1.8e-23;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db      23 GIINTLQKYYCVRVGGRCVAVLSCLPKKEQIGKSTRGRKCCRKK 67
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US-09-917-340-72
; Sequence 72, Application US/09917340
; Patent No. US20020090369A1
; GENERAL INFORMATION:
; APPLICANT: Murphy, Christopher J.
; APPLICANT: McAnulty, Jonathan F.
; APPLICANT: Reid, Ted W.
; TITLE OF INVENTION: Transplant Media
; FILE REFERENCE: TPLANT-06468
; CURRENT APPLICATION NUMBER: US/09/917,340
; CURRENT FILING DATE: 2001-07-29
; PRIOR APPLICATION NUMBER: 60/221,632
; PRIOR FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: 60/249,602
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: 60/290,932
; PRIOR FILING DATE: 2001-05-15
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 72
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-917-340-72
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Query Match          100.0%; Score 250; DB 9; Length 67;
Best Local Similarity 100.0%; Pred. No. 1.8e-23;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db      23 GIINTLQKYYCVRVGGRCVAVLSCLPKKEQIGKSTRGRKCCRKK 67
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RESULT 4
US-09-872-852-2
; Sequence 2, Application US/09872852
; Patent No. US20020115602A1
; GENERAL INFORMATION:
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; APPLICANT: MCCRAY JR, PAUL B.
; APPLICANT: TACK, BRIAN
; APPLICANT: JIA, HONG PENG
; APPLICANT: SCHUTTE, BRIAN C.
; TITLE OF INVENTION: HUMAN BETA-DEFENSIN-3 (HBD-3), A HIGHLY CATIONIC
; FILE REFERENCE: IOWA:031US
; CURRENT APPLICATION NUMBER: US/09/872,852
; CURRENT FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: 60/208,792
; PRIOR FILING DATE: 2000-06-01
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-872-852-2
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Best Local Similarity 100.0%; Pred. No. 1.8e-23;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db      23 GIINTLQKYYCVRVGGRCVAVLSCLPKKEQIGKSTRGRKCCRKK 67
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RESULT 5
US-10-091-166B-10
; Sequence 10, Application US/10091166B
; Publication No. US20030143671A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Bindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44D1
; CURRENT APPLICATION NUMBER: US/10/091,166B
; CURRENT FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 09/636,399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: US 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/058,335
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-091-166B-10
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Query Match          100.0%; Score 250; DB 14; Length 67;
Best Local Similarity 100.0%; Pred. No. 1.8e-23;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY      1 GIINTLQKYYCVRVGGRCVAVLSCLPKKEQIGKSTRGRKCCRKK 45
Db      23 GIINTLQKYYCVRVGGRCVAVLSCLPKKEQIGKSTRGRKCCRKK 67
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RESULT 6

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US-10-272-121-10
; Sequence 10, Application US/10272121
; Publication No. US20030157638A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44D2
; CURRENT APPLICATION NUMBER: US/10/272,121
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 09/636,399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: US 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/058,335
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-272-121-10
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Query Match      100.0%; Score 250; DB 14; Length 67;
Best Local Similarity 100.0%; Pred. No. 1.8e-23;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db      23 GIINTLQKYYCVRVGGRCAYLSCLPKKEQIGKCSITGRKCCRRKK 67
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RESULT 7
US-10-409-366-10
; Sequence 10, Application US/10409366
; Publication No. US20030166912A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/10/409,366
; CURRENT FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-409-366-10
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Query Match      100.0%; Score 250; DB 14; Length 67;
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Best Local Similarity 100.0%; Pred. No. 1.8e-23;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY      1 GIINTLQKYYCVRVGGRCAYLSCLPKKEQIGKCSITGRKCCRRKK 45
Db      23 GIINTLQKYYCVRVGGRCAYLSCLPKKEQIGKCSITGRKCCRRKK 67
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RESULT 8
US-10-409-532-10
; Sequence 10, Application US/10409532
; Publication No. US20030166913A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/10/409,532
; CURRENT FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-409-532-10
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Query Match      100.0%; Score 250; DB 14; Length 67;
Best Local Similarity 100.0%; Pred. No. 1.8e-23;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY      1 GIINTLQKYYCVRVGGRCAYLSCLPKKEQIGKCSITGRKCCRRKK 45
Db      23 GIINTLQKYYCVRVGGRCAYLSCLPKKEQIGKCSITGRKCCRRKK 67
```

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US-10-091-166B-2
; Sequence 2, Application US/10091166B
; Publication No. US20030143671A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44D1
; CURRENT APPLICATION NUMBER: US/10/091,166B
; CURRENT FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 09/636,399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: US 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/058,335
; PRIOR FILING DATE: 1997-09-10
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; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-091-166B-2
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Query Match          96.0%; Score 240; DB 14; Length 65;
Best Local Similarity 100.0%; Pred. No. 3e-22;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 GIINTLQKYCVRVGGRCVAVLSCLPKKEQIGKCGSTRGRKCCR 43
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Db      23 GIINTLQKYCVRVGGRCVAVLSCLPKKEQIGKCGSTRGRKCCR 65
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RESULT 10
US-10-272-121-2
; Sequence 2, Application US/10272121
; Publication No. US20030157638A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44D2
; CURRENT APPLICATION NUMBER: US/10/272,121
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 09/636,399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: US 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/058,335
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-272-121-2
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Query Match          96.0%; Score 240; DB 14; Length 65;
Best Local Similarity 100.0%; Pred. No. 3e-22;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GIINTLQKYCVRVGGRCVAVLSCLPKKEQIGKCGSTRGRKCCR 43
      |||
Db      23 GIINTLQKYCVRVGGRCVAVLSCLPKKEQIGKCGSTRGRKCCR 65
```

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RESULT 11
US-10-409-366-2
; Sequence 2, Application US/10409366
; Publication No. US20030166912A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/10/409,366
; CURRENT FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: US/09/636,399A
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; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-409-366-2
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```
Query Match          96.0%; Score 240; DB 14; Length 65;
Best Local Similarity 100.0%; Pred. No. 3e-22;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 GIINTLQKYCVRVGGRCVAVLSCLPKKEQIGKCGSTRGRKCCR 43
      |||
Db      23 GIINTLQKYCVRVGGRCVAVLSCLPKKEQIGKCGSTRGRKCCR 65
```

```
RESULT 12
US-10-409-532-2
; Sequence 2, Application US/10409532
; Publication No. US20030166913A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/10/409,532
; CURRENT FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-409-532-2
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```
Query Match          96.0%; Score 240; DB 14; Length 65;
Best Local Similarity 100.0%; Pred. No. 3e-22;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 GIINTLQKYCVRVGGRCVAVLSCLPKKEQIGKCGSTRGRKCCR 43
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Db      23 GIINTLQKYCVRVGGRCVAVLSCLPKKEQIGKCGSTRGRKCCR 65
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RESULT 13
US-09-872-852-3
; Sequence 3, Application US/09872852
; Patent No. US20020115602A1
; GENERAL INFORMATION:
; APPLICANT: MCCRAY JR, PAUL B.
```

APPLICANT: TACK, BRIAN
APPLICANT: JIA, HONG PENG
APPLICANT: SCHUTTE, BRIAN C.
TITLE OF INVENTION: HUMAN BETA-DEFENSIN-3 (HBD-3), A HIGHLY CATIONIC
TITLE OF INVENTION: BETA-DEFENSIN ANTIMICROBIAL PEPTIDE
FILE REFERENCE: IOWA-031US
CURRENT APPLICATION NUMBER: US/09/872,852
CURRENT FILING DATE: 2001-06-01
PRIOR APPLICATION NUMBER: 60/208,792
PRIOR FILING DATE: 2000-06-01
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 41
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-872-852-3

Query Match 92.0%; Score 230; DB 9; Length 41;
Best Local Similarity 100.0%; Pred. No. 3.2e-21;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 5 TLQKYYCRVGRGRCVAVLSCLPKKEQIGKCGTRGKCCRRKK 45
DB 1 TLQKYYCRVGRGRCVAVLSCLPKKEQIGKCGTRGKCCRRKK 41

RESULT 14
US-10-091-166B-43
Sequence 43, Application US/10091166B
Publication No. US20030143671A1
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44D1
CURRENT APPLICATION NUMBER: US/10/091,166B
CURRENT FILING DATE: 2002-03-05
PRIOR APPLICATION NUMBER: US 09/636,399
PRIOR FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: US 09/344,097
PRIOR FILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: US 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: US 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: US 60/058,335
PRIOR FILING DATE: 1997-09-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 43
LENGTH: 45
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
FEATURE:
NAME/KEY: VARIANT
LOCATION: (41)...(41)
OTHER INFORMATION: leucine, isoleucine, valine, phenylalanine, or
OTHER INFORMATION: methionine
US-10-091-166B-43

Query Match 85.6%; Score 214; DB 14; Length 45;
Best Local Similarity 91.1%; Pred. No. 3.3e-19;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1 GIINTLQKYYCRVGRGRCVAVLSCLPKKEQIGKCGTRGKCCRRKK 45
DB 1 GIINTLQKYYCRVGRGRCVAVLSCLPKKEQIGKCGTRGKCCRRKK 45

RESULT 15

US-10-272-121-43
Sequence 43, Application US/10272121
Publication No. US20030157638A1
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44D2
CURRENT APPLICATION NUMBER: US/10/272,121
CURRENT FILING DATE: 2002-10-15
PRIOR APPLICATION NUMBER: US 09/636,399
PRIOR FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: US 09/344,097
PRIOR FILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: US 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: US 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: US 60/058,335
PRIOR FILING DATE: 1997-09-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 43
LENGTH: 45
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
FEATURE:
NAME/KEY: VARIANT
LOCATION: (41)...(41)
OTHER INFORMATION: leucine, isoleucine, valine, phenylalanine, or
OTHER INFORMATION: methionine
US-10-272-121-43

Query Match 85.6%; Score 214; DB 14; Length 45;
Best Local Similarity 91.1%; Pred. No. 3.3e-19;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1 GIINTLQKYYCRVGRGRCVAVLSCLPKKEQIGKCGTRGKCCRRKK 45
DB 1 GIINTLQKYYCRVGRGRCVAVLSCLPKKEQIGKCGTRGKCCRRKK 45

Search completed: May 17, 2004, 18:11:58
Job time : 31.7647 secs

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OM protein - protein search, using sw model

Run on: May 17, 2004, 17:58:35 ; Search time 28.9412 Seconds
(without alignments)
394.204 Million cell updates/sec

Title: US-09-872-852-3
Perfect score: 230
Sequence: 1 TLQKYYCVRVGRCAVLSC.....KEEQIGKSTRGRKCCRKK 41

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues
Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:
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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
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11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep:*
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16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

6696238

Result No.	Score	Query Match	Length	ID	Description
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2	230	100.0	45	9	US-09-872-852-4
3	230	100.0	67	9	US-09-917-340-52
4	230	100.0	67	9	US-09-917-340-72
5	230	100.0	67	9	US-09-872-852-2
6	230	100.0	67	14	US-10-091-166B-10
7	230	100.0	67	14	US-10-272-121-10
8	230	100.0	67	14	US-10-409-366-10
9	230	100.0	67	14	US-10-409-532-10
10	220	95.7	65	14	US-10-091-166B-2
11	220	95.7	65	14	US-10-272-121-2
12	220	95.7	65	14	US-10-409-366-2
13	220	95.7	65	14	US-10-409-532-2
14	201	87.4	35	14	US-10-252-734-7
15	194	84.3	41	14	US-10-091-166B-29

16	194	84.3	41	14	US-10-091-166B-51	Sequence 51, Appl
17	194	84.3	41	14	US-10-272-121-29	Sequence 29, Appl
18	194	84.3	41	14	US-10-272-121-51	Sequence 51, Appl
19	194	84.3	41	14	US-10-409-366-29	Sequence 29, Appl
20	194	84.3	41	14	US-10-409-366-51	Sequence 51, Appl
21	194	84.3	41	14	US-10-409-532-29	Sequence 29, Appl
22	194	84.3	41	14	US-10-409-532-51	Sequence 51, Appl
23	194	84.3	42	14	US-10-091-166B-26	Sequence 26, Appl
24	194	84.3	42	14	US-10-091-166B-49	Sequence 49, Appl
25	194	84.3	42	14	US-10-272-121-26	Sequence 26, Appl
26	194	84.3	42	14	US-10-272-121-49	Sequence 49, Appl
27	194	84.3	42	14	US-10-409-366-26	Sequence 26, Appl
28	194	84.3	42	14	US-10-409-366-49	Sequence 49, Appl
29	194	84.3	42	14	US-10-409-532-26	Sequence 26, Appl
30	194	84.3	42	14	US-10-409-532-49	Sequence 49, Appl
31	194	84.3	43	14	US-10-091-166B-23	Sequence 23, Appl
32	194	84.3	43	14	US-10-091-166B-47	Sequence 47, Appl
33	194	84.3	43	14	US-10-272-121-23	Sequence 23, Appl
34	194	84.3	43	14	US-10-272-121-47	Sequence 47, Appl
35	194	84.3	43	14	US-10-409-366-23	Sequence 23, Appl
36	194	84.3	43	14	US-10-409-366-47	Sequence 47, Appl
37	194	84.3	43	14	US-10-409-532-23	Sequence 23, Appl
38	194	84.3	43	14	US-10-409-532-47	Sequence 47, Appl
39	194	84.3	44	14	US-10-091-166B-20	Sequence 20, Appl
40	194	84.3	44	14	US-10-091-166B-45	Sequence 45, Appl
41	194	84.3	44	14	US-10-272-121-20	Sequence 20, Appl
42	194	84.3	44	14	US-10-272-121-45	Sequence 45, Appl
43	194	84.3	44	14	US-10-409-366-20	Sequence 20, Appl
44	194	84.3	44	14	US-10-409-366-45	Sequence 45, Appl
45	194	84.3	44	14	US-10-409-532-20	Sequence 20, Appl

ALIGNMENTS

KPPL

RESULT 1
US-09-872-852-3
Sequence 3, Application US/09872852
Patent No. US20020115602A1
GENERAL INFORMATION:
APPLICANT: MCCRAY JR, PAUL B.
APPLICANT: TACK, BRIAN
APPLICANT: JIA, HONG PENG
APPLICANT: SCHUTTE, BRIAN C.
TITLE OF INVENTION: HUMAN BETA-DEFENSIN-3 (HBD-3), A HIGHLY CATIONIC
TITLE OF INVENTION: BETA-DEFENSIN ANTIMICROBIAL PEPTIDE
FILE REFERENCE: IOWA:031US
CURRENT APPLICATION NUMBER: US/09/872, 852
CURRENT FILING DATE: 2001-06-01
PRIOR APPLICATION NUMBER: 60/208,792
PRIOR FILING DATE: 2000-06-01
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 41
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
OTHER INFORMATION: Peptide
US-09-872-852-3

Query Match 100.0%; Score 230; DB 9; Length 41;
Best Local Similarity 100.0%; Pred. No. 4.4e-21;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQKYYCVRVGRCAVLSCIPKEQIGKSTRGRKCCRKK 41
Db 1 TLQKYYCVRVGRCAVLSCIPKEQIGKSTRGRKCCRKK 41

RESULT 2
US-09-872-852-4

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; Sequence 4, Application US/09872852
; Patent No. US20020115602A1
; GENERAL INFORMATION:
; APPLICANT: MCCRAY JR, PAUL B.
; APPLICANT: TACK, BRIAN
; APPLICANT: JIA, HONG PENG
; APPLICANT: SCHUTTE, BRIAN C.
; TITLE OF INVENTION: HUMAN BETA-DEFENSIN-3 (HBD-3), A HIGHLY CATIONIC
; FILE REFERENCE: IOWA:031US
; CURRENT APPLICATION NUMBER: US/09/872,852
; PRIOR FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: 60/208,792
; PRIOR FILING DATE: 2000-06-01
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 45
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-872-852-4
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Query Match          100.0%; Score 230; DB 9; Length 45;
Best Local Similarity 100.0%; Pred. No. 4.1e-21;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 5 TLQKYYCRVRRGRCVAVLSCLPKKEQIGKSTRGRKCCRKK 45
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RESULT 3

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US-09-917-340-52
; Sequence 52, Application US/09917340
; Patent No. US20020090369A1
; GENERAL INFORMATION:
; APPLICANT: Murphy, Christopher J.
; APPLICANT: McAnulty, Jonathan F.
; APPLICANT: Reid, Ted W.
; TITLE OF INVENTION: Transplant Media
; FILE REFERENCE: TPLANT-06468
; CURRENT APPLICATION NUMBER: US/09/917,340
; CURRENT FILING DATE: 2001-07-29
; PRIOR APPLICATION NUMBER: 60/221,632
; PRIOR FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: 60/249,602
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: 60/290,932
; PRIOR FILING DATE: 2001-05-15
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 52
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-917-340-52
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Query Match          100.0%; Score 230; DB 9; Length 67;
Best Local Similarity 100.0%; Pred. No. 7.1e-21;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 27 TLQKYYCRVRRGRCVAVLSCLPKKEQIGKSTRGRKCCRKK 67
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RESULT 4
US-09-917-340-72
; Sequence 72, Application US/09917340
; Patent No. US20020090369A1
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; GENERAL INFORMATION:
; APPLICANT: Murphy, Christopher J.
; APPLICANT: McAnulty, Jonathan F.
; APPLICANT: Reid, Ted W.
; TITLE OF INVENTION: Transplant Media
; FILE REFERENCE: TPLANT-06468
; CURRENT APPLICATION NUMBER: US/09/917,340
; CURRENT FILING DATE: 2001-07-29
; PRIOR APPLICATION NUMBER: 60/221,632
; PRIOR FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: 60/249,602
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: 60/290,932
; PRIOR FILING DATE: 2001-05-15
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 72
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-917-340-72
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Best Local Similarity 100.0%; Pred. No. 7.1e-21;
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Db 27 TLQKYYCRVRRGRCVAVLSCLPKKEQIGKSTRGRKCCRKK 67
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RESULT 5

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US-09-872-852-2
; Sequence 2, Application US/09872852
; Patent No. US20020115602A1
; GENERAL INFORMATION:
; APPLICANT: MCCRAY JR, PAUL B.
; APPLICANT: TACK, BRIAN
; APPLICANT: JIA, HONG PENG
; APPLICANT: SCHUTTE, BRIAN C.
; TITLE OF INVENTION: HUMAN BETA-DEFENSIN-3 (HBD-3), A HIGHLY CATIONIC
; FILE REFERENCE: IOWA:031US
; CURRENT APPLICATION NUMBER: US/09/872,852
; CURRENT FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: 60/208,792
; PRIOR FILING DATE: 2000-06-01
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-872-852-2
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```
Query Match          100.0%; Score 230; DB 9; Length 67;
Best Local Similarity 100.0%; Pred. No. 7.1e-21;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
OY 1 TLQKYYCRVRRGRCVAVLSCLPKKEQIGKSTRGRKCCRKK 41
Db 27 TLQKYYCRVRRGRCVAVLSCLPKKEQIGKSTRGRKCCRKK 67
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RESULT 6
US-10-091-166B-10
; Sequence 10, Application US/10091166B
; Publication No. US20030143671A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
```

APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44D1
CURRENT APPLICATION NUMBER: US/10/091,166B
CURRENT FILING DATE: 2002-03-05
PRIOR APPLICATION NUMBER: US 09/636,399
PRIOR FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: US 09/344,097
PRIOR FILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: US 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: US 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: US 60/058,335
PRIOR FILING DATE: 1997-09-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 67
TYPE: PRT
ORGANISM: Homo sapiens
US-10-091-166B-10

Query Match 100.0%; Score 230; DB 14; Length 67;
Best Local Similarity 100.0%; Pred. No. 7.1e-21;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TLQKYYCVRGRCAYLSCLPKKEQIGKSTRGRKCCRKK 41
DB 27 TLQKYYCVRGRCAYLSCLPKKEQIGKSTRGRKCCRKK 67

RESULT 7
US-10-272-121-10
Sequence 10, Application US/10272121
Publication No. US20030157638A1
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44D2
CURRENT APPLICATION NUMBER: US/10/272,121
CURRENT FILING DATE: 2002-10-15
PRIOR APPLICATION NUMBER: US 09/636,399
PRIOR FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: US 09/344,097
PRIOR FILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: US 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: US 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: US 60/058,335
PRIOR FILING DATE: 1997-09-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 67
TYPE: PRT
ORGANISM: Homo sapiens
US-10-272-121-10

Query Match 100.0%; Score 230; DB 14; Length 67;
Best Local Similarity 100.0%; Pred. No. 7.1e-21;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TLQKYYCVRGRCAYLSCLPKKEQIGKSTRGRKCCRKK 41

DB 27 TLQKYYCVRGRCAYLSCLPKKEQIGKSTRGRKCCRKK 67

RESULT 8
US-10-409-366-10
Sequence 10, Application US/10409366
Publication No. US20030166912A1
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/10/409,366
CURRENT FILING DATE: 2003-04-07
PRIOR APPLICATION NUMBER: US/09/636,399A
PRIOR FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 67
TYPE: PRT
ORGANISM: Homo sapiens
US-10-409-366-10

Query Match 100.0%; Score 230; DB 14; Length 67;
Best Local Similarity 100.0%; Pred. No. 7.1e-21;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TLQKYYCVRGRCAYLSCLPKKEQIGKSTRGRKCCRKK 41
DB 27 TLQKYYCVRGRCAYLSCLPKKEQIGKSTRGRKCCRKK 67

RESULT 9
US-10-409-532-10
Sequence 10, Application US/10409532
Publication No. US20030166913A1
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baidur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/10/409,532
CURRENT FILING DATE: 2003-04-07
PRIOR APPLICATION NUMBER: US/09/636,399A
PRIOR FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 67
TYPE: PRT

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; ORGANISM: Homo sapiens
US-10-409-532-10

Query Match
Best Local Similarity 100.0%; Score 230; DB 14; Length 67;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQKYYCVRVGGRCVLSCLPKKEQIGKSTRGRKCCR 41
Db 27 TLQKYYCVRVGGRCVLSCLPKKEQIGKSTRGRKCCR 67

RESULT 10
US-10-091-166B-2
; Sequence 2, Application US/10091166B
; Publication No. US20030143671A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44D1
; CURRENT APPLICATION NUMBER: US/10/091,166B
; CURRENT FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 09/636,399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: US 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/058,335
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-091-166B-2

Query Match
Best Local Similarity 95.7%; Score 220; DB 14; Length 65;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQKYYCVRVGGRCVLSCLPKKEQIGKSTRGRKCCR 39
Db 27 TLQKYYCVRVGGRCVLSCLPKKEQIGKSTRGRKCCR 65

RESULT 11
US-10-272-121-2
; Sequence 2, Application US/10272121
; Publication No. US20030157638A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44D2
; CURRENT APPLICATION NUMBER: US/10/272,121
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 09/636,399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
```

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; PRIOR APPLICATION NUMBER: US 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/058,335
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-272-121-2

Query Match
Best Local Similarity 95.7%; Score 220; DB 14; Length 65;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQKYYCVRVGGRCVLSCLPKKEQIGKSTRGRKCCR 39
Db 27 TLQKYYCVRVGGRCVLSCLPKKEQIGKSTRGRKCCR 65

RESULT 12
US-10-409-366-2
; Sequence 2, Application US/10409366
; Publication No. US20030166912A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/10/409,366
; CURRENT FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-409-366-2

Query Match
Best Local Similarity 95.7%; Score 220; DB 14; Length 65;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQKYYCVRVGGRCVLSCLPKKEQIGKSTRGRKCCR 39
Db 27 TLQKYYCVRVGGRCVLSCLPKKEQIGKSTRGRKCCR 65

RESULT 13
US-10-409-532-2
; Sequence 2, Application US/10409532
; Publication No. US20030166913A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
```

```
FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/10/409,532
; CURRENT FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-409-532-2
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Query Match      95.7%; Score 220; DB 14; Length 65;
Best Local Similarity 100.0%; Pred. No. 1,2e-19;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLQKYCRVGRGRCVAVLSCLPKKEQIGKSTRGRKCCR 39
      |||
Db      27 TLQKYCRVGRGRCVAVLSCLPKKEQIGKSTRGRKCCR 65
```

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RESULT 14
US-10-252-734-7
; Sequence 7, Application US/10252734
; Publication No. US20030176652A1
; GENERAL INFORMATION:
; APPLICANT: MCCRAY, JR., PAUL B.
; APPLICANT: SCHUTTE, BRIAN C.
; APPLICANT: JIA, HONG PENG
; APPLICANT: CASAVANT, THOMAS L.
; TITLE OF INVENTION: HUMAN AND MOUSE b-DEFENSINS, ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: IOWA:041US
; CURRENT APPLICATION NUMBER: US/10/252,734
; CURRENT FILING DATE: 2002-09-23
; PRIOR APPLICATION NUMBER: 60/323,991
; PRIOR FILING DATE: 2001-09-21
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 35
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-252-734-7
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Query Match      87.4%; Score 201; DB 14; Length 35;
Best Local Similarity 100.0%; Pred. No. 1.4e-17;
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      5 YYCRVGRGRCVAVLSCLPKKEQIGKSTRGRKCCR 39
      |||
Db      1 YYCRVGRGRCVAVLSCLPKKEQIGKSTRGRKCCR 35

RESULT 15
US-10-091-166B-29
; Sequence 29, Application US/10091166B
; Publication No. US20030143671A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
```

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FILE REFERENCE: 97-44D1
; CURRENT APPLICATION NUMBER: US/10/091,166B
; CURRENT FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 09/636,399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: US 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/058,335
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 41
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
US-10-091-166B-29
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Query Match      84.3%; Score 194; DB 14; Length 41;
Best Local Similarity 90.2%; Pred. No. 1.1e-16;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      1 TLQKYCRVGRGRCVAVLSCLPKKEQIGKSTRGRKCCR 41
      |||
Db      1 TLQKYCRVRYRCVAVLSCLPKKEQIYKCS TRYRKCRRK 41
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Search completed: May 17, 2004, 18:11:58
Job time : 29.9412 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 17, 2004, 17:49:00 ; Search time 11.2549 Seconds

(without alignments)
188.066 Million cell updates/sec

Title: US-09-872-852-3

Perfect score: 230
Sequence: 1 TLQKYYCRVRGGRCVAVLSCL.....KEEQIGKSTRGRKCCRKK 41

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Query length	DB ID	Description
1	230	100.0	67	4	US-09-636-399A-10 Sequence 10, Appl
2	220	95.7	65	4	US-09-636-399A-2 Sequence 2, Appl
3	194	84.3	41	4	US-09-636-399A-29 Sequence 29, Appl
4	194	84.3	41	4	US-09-636-399A-51 Sequence 51, Appl
5	194	84.3	42	4	US-09-636-399A-26 Sequence 26, Appl
6	194	84.3	42	4	US-09-636-399A-49 Sequence 49, Appl
7	194	84.3	43	4	US-09-636-399A-23 Sequence 23, Appl
8	194	84.3	43	4	US-09-636-399A-47 Sequence 47, Appl
9	194	84.3	44	4	US-09-636-399A-20 Sequence 20, Appl
10	194	84.3	44	4	US-09-636-399A-45 Sequence 45, Appl
11	194	84.3	45	4	US-09-636-399A-43 Sequence 43, Appl
12	194	84.3	46	4	US-09-636-399A-41 Sequence 41, Appl
13	194	84.3	47	4	US-09-636-399A-39 Sequence 39, Appl
14	194	84.3	48	4	US-09-636-399A-37 Sequence 37, Appl
15	194	84.3	49	4	US-09-636-399A-35 Sequence 35, Appl
16	189	82.2	40	4	US-09-636-399A-30 Sequence 30, Appl
17	189	82.2	40	4	US-09-636-399A-32 Sequence 32, Appl
18	189	82.2	40	4	US-09-636-399A-52 Sequence 52, Appl
19	189	82.2	40	4	US-09-636-399A-53 Sequence 53, Appl
20	189	82.2	41	4	US-09-636-399A-27 Sequence 27, Appl
21	189	82.2	41	4	US-09-636-399A-50 Sequence 50, Appl
22	189	82.2	42	4	US-09-636-399A-24 Sequence 24, Appl
23	189	82.2	42	4	US-09-636-399A-48 Sequence 48, Appl
24	189	82.2	43	4	US-09-636-399A-21 Sequence 21, Appl
25	189	82.2	43	4	US-09-636-399A-46 Sequence 46, Appl
26	189	82.2	44	4	US-09-636-399A-44 Sequence 44, Appl
27	189	82.2	45	4	US-09-636-399A-42 Sequence 42, Appl

28	189	82.2	46	4	US-09-636-399A-40 Sequence 40, Appl
29	189	82.2	47	4	US-09-636-399A-38 Sequence 38, Appl
30	189	82.2	48	4	US-09-636-399A-36 Sequence 36, Appl
31	185	80.4	39	4	US-09-636-399A-19 Sequence 19, Appl
32	185	80.4	39	4	US-09-636-399A-55 Sequence 55, Appl
33	184	80.0	39	4	US-09-636-399A-31 Sequence 31, Appl
34	184	80.0	39	4	US-09-636-399A-33 Sequence 33, Appl
35	184	80.0	39	4	US-09-636-399A-54 Sequence 54, Appl
36	184	80.0	40	4	US-09-636-399A-28 Sequence 28, Appl
37	184	80.0	41	4	US-09-636-399A-25 Sequence 25, Appl
38	184	80.0	42	4	US-09-636-399A-22 Sequence 22, Appl
39	182	79.1	37	4	US-09-636-399A-59 Sequence 59, Appl
40	182	79.1	38	4	US-09-636-399A-57 Sequence 57, Appl
41	180	78.3	38	4	US-09-636-399A-18 Sequence 18, Appl
42	180	78.3	38	4	US-09-636-399A-56 Sequence 56, Appl
43	179	77.8	38	4	US-09-636-399A-34 Sequence 34, Appl
44	177	77.0	36	4	US-09-636-399A-60 Sequence 60, Appl
45	177	77.0	37	4	US-09-636-399A-58 Sequence 58, Appl

ALIGNMENTS

RESULT 1
US-09-636-399A-10
; Sequence 10, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Hollaway, James L.
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-636-399A-10

Query Match 100.0%; Score 230; DB 4; Length 67;
Best Local Similarity 100.0%; Pred. No. 1.5e-21;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQKYYCRVRGGRCVAVLSCLPKEEQIGKSTRGRKCCRKK 41
DB 27 TLQKYYCRVRGGRCVAVLSCLPKEEQIGKSTRGRKCCRKK 67

RESULT 2
US-09-636-399A-2
; Sequence 2, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Hollaway, James L.
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS

```
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-636-399A-2
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Query Match          95.7%; Score 220; DB 4; Length 65;
Best Local Similarity 100.0%; Pred. No. 2.4e-20;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
OY 1 TLQKYCRVGRGRCAYLSCLPKKEQIGKCGTRGRKCCR 39
Db 27 TLQKYCRVGRGRCAYLSCLPKKEQIGKCGTRGRKCCR 65
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```
RESULT 3
US-09-636-399A-29
; Sequence 29, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 29
; LENGTH: 41
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
US-09-636-399A-29
```

```
Query Match          84.3%; Score 194; DB 4; Length 41;
Best Local Similarity 90.2%; Pred. No. 2.5e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
OY 1 TLQKYCRVGRGRCAYLSCLPKKEQIGKCGTRGRKCCR 41
Db 1 TLQKYCRVGRGRCAYLSCLPKKEQIGKCGTRGRKCCR 41
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RESULT 4
US-09-636-399A-51
; Sequence 51, Application US/09636399A
; Patent No. 6576755
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; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 51
; LENGTH: 41
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (37)...(37)
; OTHER INFORMATION: Xaa is Ile, Leu, Phe, Val, or Met
US-09-636-399A-51
```

```
Query Match          84.3%; Score 194; DB 4; Length 41;
Best Local Similarity 90.2%; Pred. No. 2.5e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
OY 1 TLQKYCRVGRGRCAYLSCLPKKEQIGKCGTRGRKCCR 41
Db 1 TLQKYCRVGRGRCAYLSCLPKKEQIGKCGTRGRKCCR 41
```

```
RESULT 5
US-09-636-399A-26
; Sequence 26, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 26
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
US-09-636-399A-26

Query Match          84.3%; Score 194; DB 4; Length 42;
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Best Local Similarity 90.2%; Pred. No. 2.5e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 TLQKYYCVRVGRGCAVLSCLPKEEQIGKSTRGRKCRKK 41
|||
Db 2 TLQKYYCVRVGRGCAVLSCLPKEEQIYKCTRGRKCRKK 42

RESULT 6

US-09-636-399A-49
; Sequence 49, Application US/09636399A
; Patent No. 6576755

; GENERAL INFORMATION:

; APPLICANT: Adler, David A.

; APPLICANT: Holloway, James L.

; APPLICANT: Baindur, Nand

; APPLICANT: Beigel-Orme, Stephanie

; APPLICANT: Sheppard, Paul O.

; TITLE OF INVENTION: NOVEL BETA-DEFENSINS

; FILE REFERENCE: 97-44C2

; CURRENT APPLICATION NUMBER: US/09/636,399A

; CURRENT FILING DATE: 2000-08-10

; PRIOR APPLICATION NUMBER: 60/058,335

; PRIOR FILING DATE: 1997-10-09

; PRIOR APPLICATION NUMBER: 60/064,294

; PRIOR FILING DATE: 1997-11-05

; PRIOR APPLICATION NUMBER: 09/150,786

; PRIOR FILING DATE: 1998-09-10

; PRIOR APPLICATION NUMBER: 09/636,399

; PRIOR FILING DATE: 2000-08-10

; NUMBER OF SEQ ID NOS: 72

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 49

; LENGTH: 42

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Defensin polypeptide

; NAME/KEY: VARIANT

; LOCATION: (38)...(38)

; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met

US-09-636-399A-49
Query Match 84.3%; Score 194; DB 4; Length 42;
Best Local Similarity 90.2%; Pred. No. 2.5e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 TLQKYYCVRVGRGCAVLSCLPKEEQIGKSTRGRKCRKK 41
|||
Db 2 TLQKYYCVRVGRGCAVLSCLPKEEQIGKSTRGRKCRKK 42

RESULT 7

US-09-636-399A-23
; Sequence 23, Application US/09636399A
; Patent No. 6576755

; GENERAL INFORMATION:

; APPLICANT: Adler, David A.

; APPLICANT: Holloway, James L.

; APPLICANT: Baindur, Nand

; APPLICANT: Beigel-Orme, Stephanie

; APPLICANT: Sheppard, Paul O.

; TITLE OF INVENTION: NOVEL BETA-DEFENSINS

; FILE REFERENCE: 97-44C2

; CURRENT APPLICATION NUMBER: US/09/636,399A

; CURRENT FILING DATE: 2000-08-10

; PRIOR APPLICATION NUMBER: 60/058,335

; PRIOR FILING DATE: 1997-10-09

; PRIOR APPLICATION NUMBER: 60/064,294

; PRIOR FILING DATE: 1997-11-05

; PRIOR APPLICATION NUMBER: 09/150,786

; PRIOR FILING DATE: 1998-09-10

; PRIOR APPLICATION NUMBER: 09/636,399

; PRIOR FILING DATE: 2000-08-10

; NUMBER OF SEQ ID NOS: 72

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 23

; LENGTH: 43

; TYPE: PRT

; ORGANISM: Artificial Sequence

; OTHER INFORMATION: Defensin polypeptide

US-09-636-399A-23

Query Match 84.3%; Score 194; DB 4; Length 43;
Best Local Similarity 90.2%; Pred. No. 2.6e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 TLQKYYCVRVGRGCAVLSCLPKEEQIGKSTRGRKCRKK 41
|||
Db 3 TLQKYYCVRVGRGCAVLSCLPKEEQIYKCTRGRKCRKK 43

RESULT 8

US-09-636-399A-47
; Sequence 47, Application US/09636399A
; Patent No. 6576755

; GENERAL INFORMATION:

; APPLICANT: Adler, David A.

; APPLICANT: Holloway, James L.

; APPLICANT: Baindur, Nand

; APPLICANT: Beigel-Orme, Stephanie

; APPLICANT: Sheppard, Paul O.

; TITLE OF INVENTION: NOVEL BETA-DEFENSINS

; FILE REFERENCE: 97-44C2

; CURRENT APPLICATION NUMBER: US/09/636,399A

; CURRENT FILING DATE: 2000-08-10

; PRIOR APPLICATION NUMBER: 60/058,335

; PRIOR FILING DATE: 1997-10-09

; PRIOR APPLICATION NUMBER: 60/064,294

; PRIOR FILING DATE: 1997-11-05

; PRIOR APPLICATION NUMBER: 09/150,786

; PRIOR FILING DATE: 1998-09-10

; PRIOR APPLICATION NUMBER: 09/636,399

; PRIOR FILING DATE: 2000-08-10

; NUMBER OF SEQ ID NOS: 72

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 47

; LENGTH: 43

; TYPE: PRT

; ORGANISM: Artificial Sequence

; OTHER INFORMATION: Defensin polypeptide

; NAME/KEY: VARIANT

; LOCATION: (39)...(39)

; OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met.

US-09-636-399A-47

Query Match 84.3%; Score 194; DB 4; Length 43;
Best Local Similarity 90.2%; Pred. No. 2.6e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 TLQKYYCVRVGRGCAVLSCLPKEEQIGKSTRGRKCRKK 41
|||
Db 3 TLQKYYCVRVGRGCAVLSCLPKEEQIGKSTRGRKCRKK 43

RESULT 9

US-09-636-399A-20
; Sequence 20, Application US/09636399A
; Patent No. 6576755

; GENERAL INFORMATION:

; APPLICANT: Adler, David A.

; APPLICANT: Holloway, James L.

; APPLICANT: Baindur, Nand

; APPLICANT: Beigel-Orme, Stephanie

APPLICANT: Shepard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 20
LENGTH: 44
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin Polypeptide
US-09-636-399A-20

Query Match 84.3%; Score 194; DB 4; Length 44;
Best Local Similarity 90.2%; Pred. No. 2.7e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 TLQKYCRVRGRCVAVLSCLPKKEQIGKSTRGRKCCRKK 41
|||||
Db 4 TLQKYCRVRGRCVAVLSCLPKKEQIGKSTRGRKCCRKK 44

RESULT 10
US-09-636-399A-45
Sequence 45, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baindur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Shepard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 45
LENGTH: 44
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
NAME/KEY: VARIANT
LOCATION: (40)...(40)
OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, Met.
US-09-636-399A-45

Query Match 84.3%; Score 194; DB 4; Length 44;
Best Local Similarity 90.2%; Pred. No. 2.7e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 TLQKYCRVRGRCVAVLSCLPKKEQIGKSTRGRKCCRKK 41
|||||

Db 4 TLQLYCRVRGRCVAVLSCLPKKECTGKMTGRKCCRKK 44

RESULT 11
US-09-636-399A-43
Sequence 43, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baindur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Shepard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 43
LENGTH: 45
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
NAME/KEY: VARIANT
LOCATION: (41)...(41)
OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
US-09-636-399A-43

Query Match 84.3%; Score 194; DB 4; Length 45;
Best Local Similarity 90.2%; Pred. No. 2.7e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 TLQKYCRVRGRCVAVLSCLPKKEQIGKSTRGRKCCRKK 41
|||||
Db 5 TLQLYCRVRGRCVAVLSCLPKKECTGKMTGRKCCRKK 45

RESULT 12
US-09-636-399A-41
Sequence 41, Application US/09636399A
Patent No. 6576755
GENERAL INFORMATION:
APPLICANT: Adler, David A.
APPLICANT: Holloway, James L.
APPLICANT: Baindur, Nand
APPLICANT: Beigel-Orme, Stephanie
APPLICANT: Shepard, Paul O.
TITLE OF INVENTION: NOVEL BETA-DEFENSINS
FILE REFERENCE: 97-44C2
CURRENT APPLICATION NUMBER: US/09/636,399A
CURRENT FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 41
LENGTH: 46

; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (42)...(42)
; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
US-09-636-399A-41

Query Match 84.3%; Score 194; DB 4; Length 46;
Best Local Similarity 90.2%; Pred. No. 2.8e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 TLQKYCRVRGRCAYLSCLPKKEQIGKSTRGRKCCRKK 41
DB 6 TLQLYCRVRGRCAYLSCLPKKECIGKMTGRKCKRRKK 46

RESULT 13

US-09-636-399A-39
; Sequence 39, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 47
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (43)...(43)
; OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
US-09-636-399A-39

Query Match 84.3%; Score 194; DB 4; Length 47;
Best Local Similarity 90.2%; Pred. No. 2.8e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 TLQKYCRVRGRCAYLSCLPKKEQIGKSTRGRKCCRKK 41
DB 7 TLQLYCRVRGRCAYLSCLPKKECIGKMTGRKCKRRKK 47

RESULT 14

US-09-636-399A-37
; Sequence 37, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS

; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 48
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (44)...(44)
; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
US-09-636-399A-37

Query Match 84.3%; Score 194; DB 4; Length 48;
Best Local Similarity 90.2%; Pred. No. 2.9e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 TLQKYCRVRGRCAYLSCLPKKEQIGKSTRGRKCCRKK 41
DB 8 TLQLYCRVRGRCAYLSCLPKKECIGKMTGRKCKRRKK 48

RESULT 15

US-09-636-399A-35
; Sequence 35, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baidur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 49
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (45)...(45)
; OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
US-09-636-399A-35

Query Match 84.3%; Score 194; DB 4; Length 49;
Best Local Similarity 90.2%; Pred. No. 2.9e-17;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 TLQKYCRVRGRCAYLSCLPKKEQIGKSTRGRKCCRKK 41

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Db 9 TLQYYCVRGRCVLSCLPKKECIGKSTRGRKCKRRKX 49

Search completed: May 17, 2004, 18:00:27
Job time : 12.2549 secs